

This Old House

GREAT IDEAS FROM THE TV SHOW'S
MAKEOVER OF A RUN-DOWN VICTORIAN

A GLORIOUS RENOVATION

HIGH-TECH, LOW-MAINTENANCE AND REALLY COMFY



KITCHEN OF THE FUTURE:

Design breakthroughs to use today

BEFORE & AFTER:

How to transform a ranch-style house

NEW: OUTTAKES

Behind the scenes with Norm, Steve and the guys

**Sometimes you forget the milk.
Sometimes you forget**

**Sometimes you forget the bread.
the store altogether.**



Whether you are going to
the stores, to work or the dry
cleaners, every trip you take
in a Concord LX inevitably

The Chrysler Concorde was respectfully ranked
"Best Premium Midsize Car in Initial Quality"
by J.D. Power and Associates®

Suspension is joyride. With every corner you become lost in
the stability of its cab-forward architecture and low-speed
traction control. As your thoughts begin to race, Chrysler
Concorde LX's smooth 4-speed automatic, a fully adaptive
electronically controlled transmission, actually begins to learn
your driving style and tailors its internal shift patterns for you. Soon your fingers grip the leather-wrapped steering
wheel and your mind hums along to the purring sounds of a
225-hp 24-valve V6. Now then, where are you going again?
For more information about a test-drive you will never
forget, call 1-800-CHRYSLER or visit www.chryslercars.com.

Concord LX starts at \$29,115. LX6 as shown, \$26,935.™



Reinforcing MacPherson struts up front
and a multi-link configuration with Chapman
struts at the rear, the exacting geometry



of the Chrysler Concorde's precisely tuned
suspension reduces rear end squat under
acceleration and front end dive under braking.



CHRYSLER CONCORDE

THE PRECISION FIT® REPLACEMENT WINDOW FROM PELLA® ONCE AGAIN PROVING THAT YOU CAN EASILY REPLACE AN ORIGINAL.



Is it the original? Or is it the replacement? With our Precision Fit® Windows, no one will ever know for sure. That's because we didn't compromise on performance or looks. We wouldn't think of it. But we did think of making replacement windows that are custom built to any 10" dimensions, so they can be installed easily without disturbing your paint or wallpaper. They're available in a complete line of double-hung vinyl options, including our innovative Designer Series® or the always classic Architect Series®. It's just one of the myriad ways our windows make your home look like a masterpiece. To find out more, contact us at 1-800-54-PELLA, or visit our website at www.pella.com.



VIEWED TO BE THE BEST.™



They're good-looking. They're fashionable. They're the color of dirt. If you've been to southeastern India lately, you've noticed two things: It's hot. And it's dusty. This was also noticed by the French colonial troops stationed there in the mid-1800s. Their white uniforms were impossible to keep clean in those pre-bleach days. So they used a rust-colored dye to hide the dirt. Today, those pants are worn everywhere, including stuffy law firms on casual Fridays. We've been making pants for over seventy-five years. Our khakis, like everything we sell, come with our guarantee and are available in "olive," "sand," "ink," "black" and "dirt," which we refer to as "khaki."



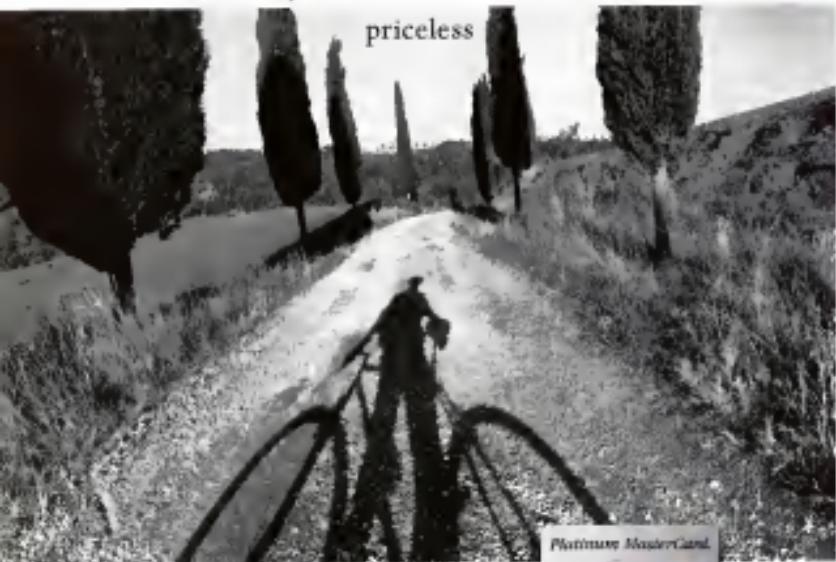
18 speed bike: \$1,225

shipping bike to Italy \$235

map of Tuscany: 9,000 lire

seven days without email:

priceless



Platinum MasterCard® has a high spending limit
for the things that matter.

there are some things money can't buy
for everything else there's MasterCard.™



Watertown Finale, p. 75

At Nixon Abrams, Tom Kline, Barbara Devine and their crew apply the finishing touches to a stunning Queen Anne; the renovation may pit them at the costliest in The Old House lottery—and also one of the most spectacular. BY RAND LEHRER

features

A New Old House

A family of five builds a house that combines quality craftsmanship, modern convenience and—thanks to lovely architectural details salvaged from period structures—plenty of historic charm. BY RICHARD CONNELL

An American Craftsman

Two former brick factory buildings are reborn using carved timber beams and tile. BY RAND LEHRER

Dream House: Stone-Faced

At The Old House magazine's project in Waterford, Connecticut, a unique foundation with a fieldstone pier goes the distance of a solid stone pedestal supporting the charming Shingle Style facade. BY JACK McCLINTOCK

Classical Grandeur

McBride, a gracious Greek Revival in Natchez, Mississippi, embodies an appealing combination of elegance and livability. And with its ornate architectural design, the exterior even exudes grandeur. BY JACK MCCLINTOCK

Poster: Bolts and Nuts

Clock out those fancy blossoms as we go nuts for bolts. BY PETER JESSEN



COVER A striking view off the kitchen in the Watertown project house, a restored Queen Anne in all her majesty. Photograph by Foster Willemon. See story p. 75



PLASTER'S TRADE, p. 110



WITH THE HDS, p. 88



BEFORE AND, p. 70



Caution: Pressing your nose to the window will leave a mark.

It is like nothing you've ever before in an automobile. An interior miraculously crafted not just with sumptuous textures and color palettes, but thought. Purpose. That is the distinct interior concept in the stunning V6-powered Audi A6. More than another luxurious cabin, it's an intense design concept dedicated to the unique, as well as your personal taste. Exquisite fabrics,

A6

colors, woods and textures create a choice of three coordinated interior designs we call *Atmospheres*.TM Advance with its natural tones. Ambiance with its Mediterranean spirit. Ambitor with its classic simplicity. Every seat and panel carefully crafted to reflect your personal style. Call it a statement to your good taste. Call it a driver's right to choose. Call it the perfect interior.





"An eave is to a house what an eyebrow is to a face."

—Robert A.M. Stern

ALL ABOUT EAVES 31

up front



Mixer Cuts With Stone: The Kitchen of the Future

The team at This Old House transforms a code-breaking "immortal kitchen" in the Blaize Island Cabin of Oregon—and then the sun-kissed! BY ROBERT TILLMAN

Saving the Ranch

A new kitchen is the key to making over a 200-year-old ranch house. BY CLIFFORD KIRK

Feat of Clay

Brick is easily dispensable grace in color and texture. BY JACK MCCARTHY

Lead Paint Strategies

The eight ways to deal with layers of old paint. BY LUCILLE BELL

All About Eaves

Keep eavestings great. House character needn't spread like dementia. BY CAROL BELL

The Lien Machine

Sometimes a contractor doesn't want you, but you can still keep your resources on board and avoid the sting of a mechanics lien. BY MICHAEL BURRIS

Brilliant!

Copper shingles keep a roof in mint condition. BY BRUCE LEVINE

outtakes

- The First Room Looks Like Cowstail Waterhouse Wags Up
- Noosa's Key West Cabin
- Pest Project Update: Safers
- Tom's Hidden Workshop: Calendar

plus

- Contributors 18 Listings 18 Addendum 38
- Letters From This Old House 44 Directory 126
- TV Listings 128 Creative Programs Guide 126
- Save This Old House 148



THE FIRST ROOM, PAGE 17

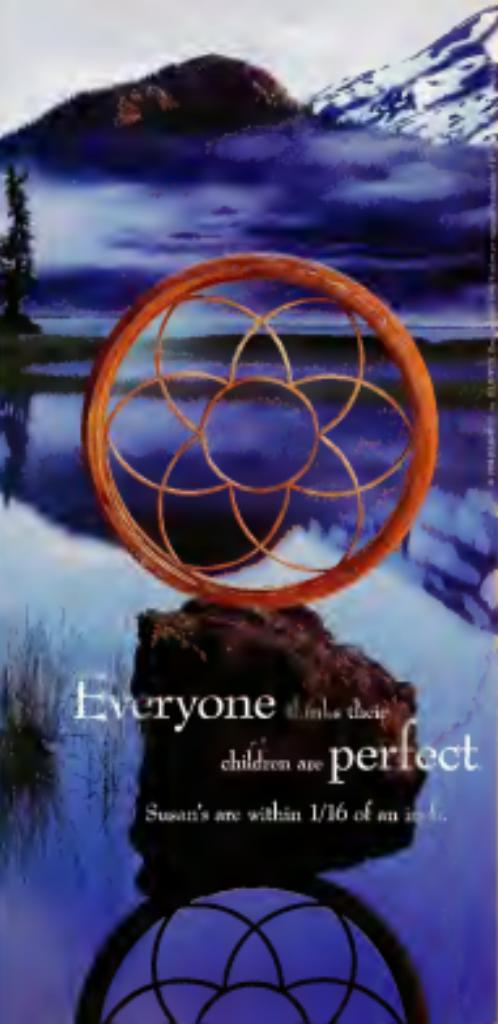


THE FEAT OF CLAY, PAGE 49

Photo: Alan Gura/Photo: Alan Gura/Photo: Alan Gura

Everyone thinks their
children are perfect

Susan's are within 1/16 of an inch.



Susan Miller,
Suzanne Design

When you're追究ing the details, you get attached to your work. Equal parts art and engineering, every Rozzi® wood window is chiseled to within 1/16" of spec. Then artisans like Susan often have their photo taken with their handiwork before shipping. Why so proud? Likely for the way some seasons you'll have for coming up.



Rozzi.com | 800.237.9663 ext. TOHUS

Free catalog
www.rozzi.com

Despite an escaped corn snake and other mishaps, **RICHARD CONNELL** survived to write "A New Old Home" (page 44), an account of the construction of his four-bedroom Simple Style bungalow in Connecticut. The brief corner snippet, a homespun romanza, had been planned in the house before the renovation was complete. But Vicki signed out of his cage and didn't disappear for two months. "I had to fit it into the introduction," says Connell, who is trustee of the 15-month project concerning about making a foothold Raely in my home." For Abiding, cradled and Bared, Connell Whispers Among Tales from and Every Creeping Thing, Trade Wind (1980), both published by Last Leaf, he's been honored as part of a new Town & City series that features first-person narrative experiences with the reader.



Photographer **EDDIE GRIFFIN**
PENNYCOOK dressed that he
appeared of his original
"A New Old House"
(page 88). "I really liked
the markings and old
drama. Some of them
haven't changed since
they were first," he
says. "My favorite room
was the mudroom door.
You could open the top
and bottom halves sep-
arately, and there was
glass on the top panes." A
new York City native
—as well as a rising
Comedy Theatre, The
Wharf, and Broadway
producer—Sally and
Jefferson's Klipsch
have their own
lovely dance studio, where
they practice tango, a tcha-
koo, a foxtrot, and other
old-style movements.

CONSCIENCE: who has it? In New York City now since his days photographing—so well as urban lighting and art construction—for the *Conte Theatre*. The *Washington Examiner* states it is currently producing *Sally and Tim*, a play about the relationship between the slave Sally Hemings and President Thomas Jefferson. Klapprott also has an apt name to visit local dance studios, where he and a partner engage in the Argentine tango, a 19th century dance that has recently been enjoying a resurgence around the world. Klapprott is a known conductor to famous, like Bogart and *Breakfast at Tiffany's*.

- Barbara Brauer

第十一章 财务管理

To receive a new subscription or split existing account (2018 R3 or greater),
or renew a subscription, go online to <http://www.sagepub.com/info/soc> or
please contact your sales agent, call 800-411-3227.



This Old House
has a solid foundation...



In September, 1979, The Old House debuted on PBS and began a how-to-home revolution. Now, in our **20th season**, thanks to lots of hard work, unflagging professionalism and a dedication to superior craftsmanship, The Old House has become the highest-rated home improvement series on television.

We at The Old House couldn't have done it without the ongoing support provided by our national sponsors, State Farm Insurance Companies, Ace Hardware Corporation and The Minwax and Krylon Brands. **Many thanks.**



The article "Take a Walk on the Warm Side" discusses the advantages of comfort and energy efficiency associated with radiant heat but fails to make aware of the significant benefits related to this system. When the floor itself becomes the "radiant," the infrared device eliminating the need in most conventional systems is eliminated. No baseboard radiators, no cast-iron radiators and a guitar or guitar strings are required to distribute the heat. The carrying hoses and gauging of hot water in—water—either through metal piping are also is eliminated.

Most mobile floor radiant systems need a forced pump to heat the system. Infrared radiant with the infrared layout. In smaller homes, these space savings can have considerable financial and savings impact.

David Horner, Whittier, Calif.

Medical Research

I urge you to look at their heating system and copy it ("Take a Walk on the Warm Side," November 1991). But I feel you should change the advantages of such systems. You compared it to hot water baseboard and forced hot air heating. These are both convection heating systems. The former heats water from the heat exchanger in coils, and the latter heats air directly. No radiation was made to help it is called hot-water floor heating. Most of the heat transfer can be compared to the way we can heat one another directly from our body to another. Radiant floor heating systems heat people (not solid objects like chairs and seats)—another advantage—but the heat is not in your head as in the radiant effect. We like having resistance in every room. Lamps on a rock in the sun never had it so good. And just think at our use the friends lounging about on these floors too.

Christopher D'Arienzo, Somers, Mass.

I support energy efficiency programs for a utility company and promote radiant floor heating as my favorite in both-sense energy efficient measure and in the highest quality form of heat for their houses or businesses. I am very happy to see "Take a Walk on the Warm Side." It was an unusual switch that exposed most of the important features of radiant floor-heating. There is, however, a way to avoid the conundrum problem experienced with gas- or oil-fired boilers. Many of my customers use two different forms of electric heating systems to heat radiators; electric boilers and gas- and oil-fired boilers. They're cheaper to operate than gas- or oil-fired boilers and do not cause condensation problems.

Tom Doherty, Kenosha, Wis.

I just finished reading your article about the benefits of in-floor radiant heating. I think I live with it and am in the position to believe that you are wrong in the next few lines of writing ever mentioned. The floor is hot, and the room is cold. Air circulation is absent. For those of us in the "Sun City of California," the system doesn't provide the quick heat we need in the morning and the cool heat we need in the heat and at the day I lived with radiant floor heating in Marin County for eight years. I was never uncomfortable when cold. You cannot have heat because they block the heat flow. What would it be no-no for toes. The system needs to be run regularly. The water becomes cold and once it's when you do the bleeding. Radiators will shut off entire sections of the system for a good reason. As the system ages, galaxies connect at 10 miles each new story or new room. Good old hot water or cast-iron-pipe-connected radiators, with steam heated or to about 180° F instead, are much better solutions for the high seasonal requirements of heat at the United States. By the way I had a laugh about the "marketers" of your various installations.

Howard M. Burman, B. San Jose, Calif.

Buddy Trap

The article on awakening nice ("When There's a Wizard in the House," November

1989) was very informative. However, here of the most bizarre picture, the Log Roll and the Dandy Gangplank, could be classified more than just nice. Both were a combination of innocence, innocence that the mice are stamped or drawn. It would point out that innocence is a dandy place. Household or neighborhood pets and children could easily ingest the innocence from either of them two mice and suffer fatal results. Please alert your readers to this hazard.

Rita Morrison, Phoenix

kudos

A few issues back, we commended Japan Bluebeam for its cheerful and truly customer service. Since then, we've heard all sorts of anecdotes from The Old Bluebeam readers who've had similarly poor experiences with other manufacturers. Here's one of our favorites:

Delta Delights

I purchased a Delta Discuse last year from a mail order company in North Dakota. Just a week after I had placed my order, someone funds for that unit. I requested the machine upon delivery and found that it was in good condition—except that certain parts had a case of rust on them.

The mail-order company was completely out of business because of the flood, so I called Delta directly. They were wonderful. They sent me the parts (including a free of charge). A year later, the saw runs great, and I have since purchased a 10-inch Delta band saw.

RICHARD KAYE, Pelican, N.Y.

punch list

Included in a list of items frequently shown or mentioned by the Readers is a correspondence from James W. Weyant, 1994.

to the Editors. Please note the name of the author was misspelled. He is a James Weyant, not James W. Weyant. His letter to the Caps and Cans column in the January 1994 issue of *Toolbox* was printed in full. Please accept my apologies for this error.

James W. Weyant, 1994. Please excuse my mistake. I am a member of the *Toolbox* editorial board and responsible for the column.

PHOTO COURTESY OF THE HOME DEPOT

Eleven new reasons to park your car in the driveway.



NEW RIDGID BENCH TOP AND STATIONARY TOOLS. YOU'LL FIND THEM ALL AT THE HOME DEPOT.

Your garage is about to get a lot smaller. Thanks to the new line of woodworking tools from Ridgid, a name professionals have trusted since 1933. Built to last, each tool has been engineered for the serious woodworker and is backed by a lifetime warranty. And, of course, at The Home Depot, you'll always find them at the guaranteed low price. Every day. So you can afford to build RIDGID almost anything you want—including, perhaps, a new place to park the family car.



Low prices are just the beginning.

OUTTAKES



BEHIND THE SCENES AT THIS OLD HOUSE



Before the grand finale, Steve Abrahm and Tim Silva prep boards in Tom's subterranean Watertown workshop, and Tim helps Steve Thomas rig his studio lights.

www.igottagetorganized.com



Visit www.americanexpress.com for a better way to control your finances. American Express® Online Services is an easy and secure way to manage your finances. You can review recent charges, so you'll always know what's on tap. Also, download transactions into Microsoft software, so your records are always up-to-date. And you pay your bill online, so there's no paperwork. Register online now; it's free.

do more

MISSION CONTROL

THE WRAP PARTY IS A VENERATED THIS OLD HOUSE TRADITION AND, AT THIS SEASON'S, JUST BEFORE NEW YEAR'S EVE, EVERYONE—FROM ASBESTOS ABATERS TO DECORATIVE PAINTERS—who transformed the Watertown house came to marvel at the results with Norm Abram, Steve Thomas, Richard Trethewey and Tom Silva. By the time the quiete arrived, the gleaming Queen Anne looked completely finished (see "WATERTOWN FINALE," PAGE 75). But fresh sandust in the basement tolled a different stork: Tom had yet to dismantle his impressive on-site workshop, which had been churning virtually nonstop for months and where Tom was, up until a few minutes before the festivities, still whittling down his punch list.

PHOTOGRAPH BY JEFFREY L. HARRIS

To apply for the Card, visit us at www.americanexpress.com or call 1-800-365-2200. Cards in most American Express® Risk Segmented accounts are issued based on a credit approval process. If approved, the terms, all of the conditions and obligations, including a service fee deduction feature and a regular security deposit in alternate currency account required, are issued by W.F. Young Consumer Cards and Home Finance Company and C.R. Smith Securities Inc., both wholly-owned by American Express Company. © 1997 American Express Company. All rights reserved. Terms and Conditions of Corporate Cards apply. Other restrictions, limitations and conditions apply. American Express is a registered trademark of American Express Company.



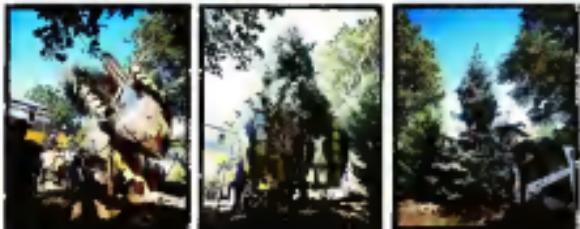
WATERTOWN WRAPS UP



JIM. NO, HE'S NOT RE-COVERING FROM THE GREAT STAIRCASE MIGRATION (SEE "A STAIRWAY THAT'S HEAVEN," PAGE 80) BUT RATHER FROM SURGERY ON HIS ROTATOR CUFF, WHICH HE TOOK WATERSKIING TWO YEARS AGO. THE PARTY WAS HIS FIRST MAJOR GUTTING AFTER THE OPERATION. UP UNTIL THEN, HE'D BEEN RELAXING AT HOME. HE EVEN FOUND TIME TO CLEAR OUT HIS CLOSETS. "YOU KNOW WHAT?" HE SAYS. "I'VE GOT A LOT OF PLAID SHIRTS!" ■ ■ ■ THE T.O.H. CELL-PHONAHOLICS GET A FIX.

卷一九九 亂世大帝明太祖

This Old House landscaper Roger Conci found the perfect path-in privacy. Three abandoned Christmas trees, long-forgotten for 25 years, the 28-footers were accepted out of a dozen evergreens Christmas tree lot and loaded to the Waites' project's back yard, where they were stripped of boughs and discarded with 900 gallons of mulch. "They're frosty," says Conci. "Christmas trees can't be up again."



SCIENCE 11

1 CUCKOO! TOM INSPECTS A HOLE HE'S SAWED OUT FOR THE RANGE-HOOD VENT.

2 CAMERAMAN JOEL CORLENEZ ANGLES IN FOR THE PERFECT SHOT AS NORM AND TOM TRY TO MAKE INSTALLING THE HOOD LOOK EASY.

3 AT THE WRAP PARTY, NORM MAKES A CURIOUS BARTON-IAL STATEMENT: A SWING ON HIS RIGHT





Like your brain, the new Land Rover is automatic by adjustment to anything.

Introducing the most technologically advanced land Rover yet.

When it comes to creating the rest of our Discovery Series II, we didn't know anything yet.

Besides being completely reorganized and totally redesigned, it comes equipped with technological advancements not found in other BPs. Like the newly available Active Connecting Enhancement. A feature that uses computer software and has

enhanced technology options to regulate emissions directly via REVWise rule. Sulfur is one key fuel parameter's effect on emission levels.

-4-



And thanks to four-wheel electronic traction control, off-season ABS and rearward four-wheel drive, there's not an all-weather problem it can't solve. There are even side airbags for

enough 14-gauge steel chain. So why
not call 1-800-FIRE-1973 or visit us at
www.BeaustedLeather.com?

With a starting MSRP of \$34,715*, there's no telling who we suspect you will be driving.
Check out [Fiat.com](#)

abreurs sont pour un certain temps bloqués jusqu'à ce que la pression suffisante



There's a lot of metal. The new billion-dollar Thomas and Krenzschek Gold/Copper Project supervisor and T.O.H. host John Rosenberg measure 15 feet high.

KEEP ON TRUCKIN'

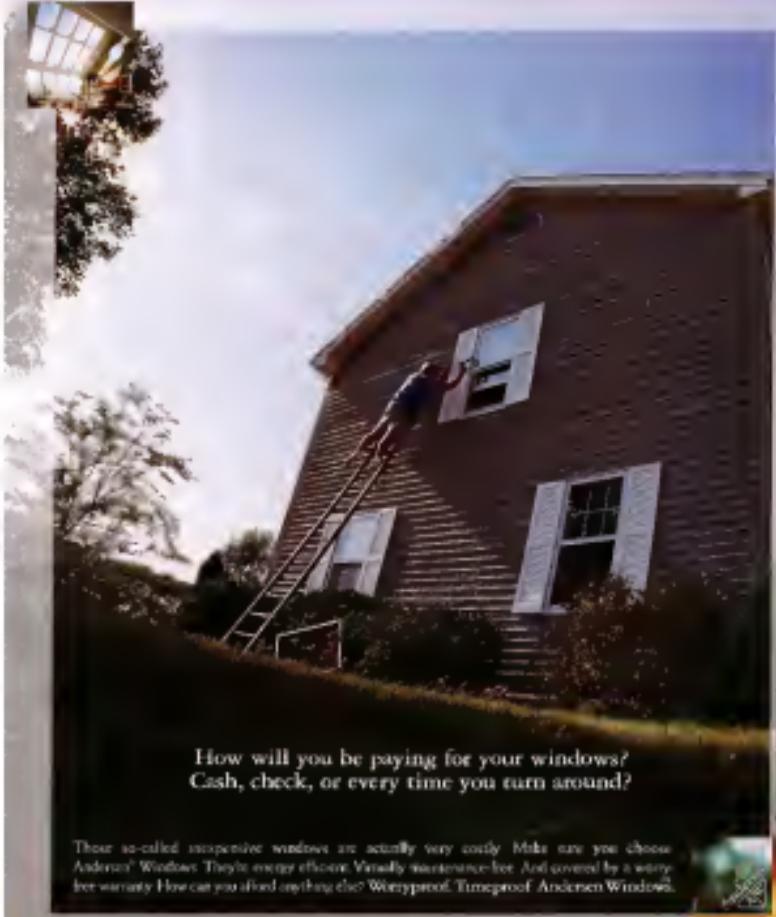
IF YOU'VE EVER PLAYED WITH TONKA TRUCKS, YOU'RE GOING TO WISH YOU'D SPENT THE DAY WITH T.O.H. HOST STEVE THOMAS WHEN HE WENT TO THE BINGHAM CANYON COPPER MINE TO CHECK OUT THE SOURCE OF THE MATERIAL USED TO ROOF THREE PORCHES AT THE WATERSTOWN PROJECT. (SEE "BRILLIANT!" PAGE 69.) BINGHAM CANYON, HALF AN HOUR OUTSIDE SALT LAKE CITY, IS THE LARGEST OPEN PIT IN THE NORTHERN HEMISPHERE, SO THE TRUCKS THAT TRANSPORT THE ORE TO THE INITIAL CRUSHER HAVE TO BE HUGE. THEY'RE TOO BIG AND HEAVY, IN FACT, TO DRIVE ON A PAVED ROAD. THE PARTS—INCLUDING THE 2,300-HORSEPOWER DIESEL ENGINE—GET SHIPPED IN AND ASSEMBLED ON-SITE. AND IT TAKES A FIRE HOSE TO WASH OFF ALL THE MUD AND DIRT THEY PICK UP ON THE JOB. AFTER JUST A DAY AT THE MINE, THOUGH, STEVE GOT PRETTY USED TO THEIR GARGANTUAN SIZE. WHEN HE GOT HOME, HIS OWN FORD RANGER SUDDENLY LOOKED, WELL, TONKA-SIZED.



AW, SHucks

With that Name blushing behind his beard recently! Perhaps he'll take a grade at a孟ville mosque or a church in which wiser Germ Herkey confesses she's long favored a Dame for the "TV hook" she can dream up: carpenter here at The Old House. After all, she says, "Who can resist a solid, plain-talking Yankee who knows the business end of a nail finder, who can do a fine level, who can even build a working rolltop desk?" What's more, she says, "Nora does talk dirty. Dry me! Midway. Least I need just." Ooh boy!

Photo courtesy of Andersen Windows, Inc., St. Paul, Minnesota



How will you be paying for your windows?
Cash, check, or every time you turn around?

These so-called inexpensive windows are actually very costly. Make sure you choose Andersen® Windows. They're energy efficient. Virtually maintenance-free. And covered by a warranty. How can you afford anything else? Worxproof. Timeproof. Andersen Windows.



For a quote or building remodeling, visit our website or your nearest dealer. Call 1-800-626-4261 or 2100.



A STORM OF NORMS

1. Brad Dylhoff, 42, a carpenter from Villa Park. "I wanted to know where I fit into the race of norms—to be exploited for my tools."

2. Dan Peterson, 36, a building supervisor from Lake Zurich. "My family and I dressed up as Norm and Steve and learned how to 'Prallese'."

3. Steve Szwarczak from Elgin, 35, a sheet metal worker from Madison Park. "Received for the IT'S A DOOR-in contest grand prize. With that, I could finally have a workshop like Norm's."

4. Craig Racine, 45, a carpenter from Melrose. "I was just going on for a couple of hand tools, and the guys on the hardware store dragged me over to the Norm contest and made me come up purpose."

5. Mike Frisch, 32, a piano mover and former carpenter from Rock Falls. "I believe the best part of the contest, Norm, and I could pass for norms!"

"THE GUYS, I'M NORM," "NO, I'M NORM," "THEY, I'M NORM. NICE TO MEET YA!" SO WENT THE CONVERSATION RECENTLY AT A CHICAGO RESTAURANT, WHERE A SEA OF PLAIN-CLAD, BEARDED AND BERETTABLED MEN VIED FOR AN INVITATION TO THE FIRST-EVER "NORM LOOK-ALIKE" CONTEST, WHERE THE FIRST PRIZE IS \$10,000 IN PORTER CABLE TOOLS. THE WOULD-BE CLONES, ALL FROM ILLINOIS, TRIED TO ONE-UP EACH OTHER IN THEIR NORMNESS. "IT'S MY SMILE—it's just like Norm's," said Dan Peterson. "He always seems happy, and I'm the same way. My motto is: What's to be upset about?" Brad Dylhoff, a carpenter, goes by "Norm" at work. He arrived one day to find the name embossed on his hard hat and has answered to it ever since. "People are always coming up to me, asking for advice and autographs," Dylhoff said. "Sometimes I tell them I'm not Norm, another don't believe me." But in the end, it was Steve Szwarczak who took the first round. He met Norm six years ago at a hardware show and has since perfected the look. "My mother-in-law calls every week and says, 'I saw you on TV again,'" Szwarczak said. "Do you think Norm needs a stunt double?" Look for THE WINNER IN THE APRIL ISSUE OF THIS OLD HOUSE MAGAZINE.

PAST PROJECT UPDATE: SALEM

The Old House team takes many more under the shotgun Delaney and Karen Gagner reduced an open country-style porch for their Salem, Massachusetts, Federal house in 1995. The house's historical commission never did give them the OK, so the Gagners went at it in secret and spared no expense. A family room, ironically, Delaney's light was recently appointed to the commission, replacing the member who insisted the changes compromised its historicity. But the Gagners are letting well enough alone. "More than we have a family room, I wouldn't possibly give it up for a driveway," Delaney says. "I guess it all worked out in the end."



PHOTO BY RANDI HARRIS FOR THISOLDHOUSE.COM

The day we found a monster in our mailroom

This happened in Tokyo.

A Japanese mother returned a kid's parka to us. And somebody in Shipping discovered a toy in the pocket—a goofy, 4-inch monster.

Well, figuring some little kid would miss it, he sent it back.

The next thing you know, we received a postcard from a very grateful mother.

Seems that goofy monster was her kid's favorite toy.

Mind you, we get cards and letters all the time at Lands' End®—thanking us for the little unexpected things we do.

A lady in Germany wrote that she ordered a necklace for her son—who usually doesn't wear ties—asking us to send him instructions on how to tie it.

Instead, one of our people tied one to show him how. And sent it in a gift box, for extra measure.

And then, there's the English chap who sent back one of our Original Attaches®—well worn—



asking us to repair a broken zipper.

We sent him a brand new Attache.

He wrote back that not only was he delighted by the replacement—he even likes the new color better.

Wherever Lands' End customers are, we try to do right by them, just as we do here at home.

Only here, we've been doing it for thirty years and more.

LANDS' END
Original Attache®

General Period

©1998 Lands' End Inc.

For our free catalog,
call 1-800-308-4554
or mail to: 1 Lands' End Lane, Dodgeville, WI 53533

Name _____ Age _____

Address _____ Apt. _____

City _____ State _____ Zip _____

Phone (____) _____

Fax 1-800-322-0825 www.landsend.com/catalog/225

FISHY TALES



EVER SINCE THE THIS OLD HOUSE PROJECT ON NANTUCKET, STEVE HAS PROVIDED A REALITY CHECK ON NORR'S SELF-PROCLAIMED FISHING PROWESS. SO WHILE TOURING KEY WEST—WHERE THE T.O.H. WINTER PROJECT IS UNDER WAY AND WHERE THIS MARLIN WAS HANGING AT THE TOWN PIER—STEVE

TOLD NORR THAT IF HE CLAIMED HE CAUGHT THE TROPHY HIMSELF, HE'D HAVE TO EAT IT FOR DINNER. BETTER BRING A RECIPROCATING SAW—THE FISH IS FIREGLASS.



In Key West, where real estate is cheap, house owner and architect Michael Miller plans to sacrifice one end of the back terrace, left, and turn it into a state-of-the-art lanai. The front porch of his coach captain's house, right, will remain intact, although the palms may wind up in another location.

PHOTO BY TOM MURRAY; INSET PHOTOS: MICHAEL MILLER



A photograph from the movie *License to Kill*, starring Pierce Brosnan.

THIS OLD SAFE didn't fall on Jack Daniel, but it may as well have.

One morning in 1905, the safe wouldn't cooperate with its owner (he thought he knew the combination well). Mr. Jack lost his temper and kicked it hard enough to break his big toe. Infection took a lot of people in those days, and a few years later, it took Jack Newton Daniel. Faithful to his ways, we've never altered the whiskey that bears his name. Nor, we'll admit, ever found reason to mess with that old safe.

SMOOTH SIPPIN' TENNESSEE WHISKEY

Note: Friends at Jack Daniel's remind you to drink responsibly.

Jack Daniel Whiskey • 43% alc/vol • Imported and distilled by
Jack Daniel Distillery, Law Union Property, Brown & Lytle, Inc., Lynchburg, Tenn. 37304 • www.jackdaniels.com
Photo © 2000 The Heublein Company, Hartford, Connecticut. © 2000 The Heublein Company, Hartford, Connecticut.



CALENDAR

MARCH

1		Key West project enters final round—phone in!
2		Made-in-Billy kitchen goods in at Key West house.
4		
5		
6		Steve ottolini Ground Supply Hardware How-To Fair in Pleasanton, Craft, and Tomato New Jersey Home Renovating & Purchasing Show
8		Key West home gets a custom-made library
10		Horn and Steve wind up the Key West project and head for Mallory Square for final one-foot concert
12		
14		Home goes to Michigan Builders' Show and Detroit Flower Show at the Cobo Center in the Motor City
16		Steve carpools with Horn to the Builders' Show and Detroit Flower Show
20		Steve wings by Columbus, Ohio, for Western Builders' Expo at Columbus Convention Center
21		
22		
23		
24		The new Old House book arrives in 1999 stores—pick up!
25		
26		Steve checks out Bartram's Arboretum Home Show at Georgia World Congress Center
27		
APRIL		
1		Horn gives Steve free tour of the woodshop while Terry takes a day off—April Fool's!
2		
3		

© 1999 Mercury Division of Ford Motor Company. All rights reserved. "Mercury" is a registered trademark of Ford Motor Company.

IN CASE OF DISCOMFORT BREAK GLASS



Mercury Grand Marquis. Imagine yourself in a Mercury

• leather interior • PreciseTrac® suspension system • All-Speed Tractive Control™
• star government crash test rating** • 800 445-8888 • www. mercuryvehicles.com



ASK NORM

"Insulating a ceiling with fiberglass or cellulose will do little to block out noises overhead. Polyisocyanate, an expanding foam, is a more effective sound barrier."

WIDE-PLANK FLOORBOARDS

I have a 1798 Cape Cod house in the middle of cranberry country, and I need to do some repairs to the floors. What's the best way to remove the old wide-plank floorboards so I can replace them later? What tool can I use that will pull up the nails, with the least amount of damage?

F. SCOTT SEZEE, CAVON, MASS.

A hammer, either a nail set or a punch and some pry bars are what you need for this finely crafted. To get the first board up, just drive the nails all the way through. That will give you access to the ends of other boards, where you can pry up gently and carefully, by hand. Pry from the ends to heads toward paying along the ridge, for you're less likely to split the boards. Be prepared for some breaking, though. I don't think of a single such job where we haven't damaged at least a few planks. However, we run out of fasteners both fast and patience as floors begin to lift. Sometimes damaged boards can be glued or saved by trimming off a little edge. Still, if you rip up floors in four rooms, you'll be lucky to have enough usable boards for three. If the job involves just one room, you'll undoubtedly come up short. You might take some boards from closets. Or you can try staining new or salvaged wood, but you'll never get a perfect match. The trick is to pair the replacement boards in spots where they can be hidden by furniture and go unnoticed.

HISMATCHED COUNTERTOP

I want to build my sink and ceramic-tile countertop with two pieces of tile separated by a thick dark grout and use corian board as a base. Any suggestions?

WALTER M. LIEBERT,
Washington, Pa.

Such a countertop would be nothing but trouble. It's not strong to put an oak edge on a countertop but something else to use decorative materials on the inner steel surface. The wood could expand enough to pop the grout—and ruin the tiles—and adhesive moisture could get trapped in the joints.



POTTERY-HOME NOISES

The situation we want to talk about is noise. Our house is just three years old but, what we've done to it, we can hear every little sound inside upstairs. There is no insulation between the floors, and the basement ceiling is finished with drywall. Would insulation help?

NANCY AND GARRY COOPER, Wellington, D.C.

We're doing a major rehab on a turn-of-the-century house whose previous owners said on there were old pine floors beneath the carpet and linoleum. We'd like to restore these floors but are concerned about noise. Do sound-shielding underlays really work? If so, could we cover them with drywall without sacrificing their sound absorption?

LORI GARDNER, Baltimore

Trying to insulate or muffle noise is never easy. Insulating a ceiling with fiberglass or cellulose will do little to block out footstep or other voices overhead. Polyisocyanate, an expanding foam, is a much more effective sound barrier but is expensive and has to be applied by experienced contractors. Acoustic tiles will cut down on reflex noise a ton, but they won't go with Victorian decor unless it's what you want to cover them up. The striking point is that a layer of drywall will reduce the noise levels, and the ceiling will be dead. You can reduce the noise level considerably by putting down lots of scatter rugs. Then again, you may discover that the top layer of fixtures on an old pine floor is not so bad after all. The sounds of life are part of the charm of a house. It's remarkable and, in my view, indispensable to create an atmosphere of timeless silence.

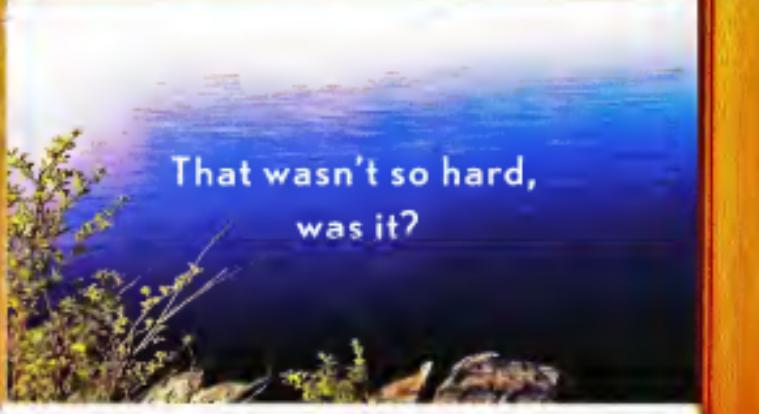
PLUG GOLT

Blown-glass insulation left holes in our aluminum soffit. The phone plug the contractor provided are amateurish, and we'd like to do away with them when we paint the house. What do you suggest?

KAREN J. FERGUSON,
Frederick, Ohio

Please sorry to say I have an answer for you. It will make you feel any

How easy is this new window to operate?



That wasn't so hard,
was it?

Introducing the Marvin Clad
Ultimate Double Hung Window.

It's easier to lift and tilt than other double hungs. And look, an all-wood interior. The first of its kind. After more than 100 design changes (everything but the paint, glass and a few screens), this window looks great and performs better. It's going to change how you think about double hungs. You have to see it, feel it, open and close it to believe it.

MARVIN 



The new Clad Ultimate Double Hung. Everyone who sees it loves it. Come see for yourself. No unsightly vinyl jamb liners on the inside. An extruded aluminum clad exterior with the character and detail of a wood original. And our exclusive integrated sash tracking and locking system makes it so easy to lift and tilt. There's nothing like it. You've got to experience it.

MARVIN 
Windows and Doors
Made for you

For a free product brochure, call 1-800-268-7644

In Canada 1-800-263-6661 www.marvin.com

better. Your letter will review other readers considering a below-the-pub. The disclosed plan outlined is one I don't like. It's easy to push off allowances and vinyl siding and push it back later, leaving us rates behind, and there's no good reason not to do the job right away.

SIMPLE MATIN

I'm going to replace the roof on a small garage. Is there a way to figure out how many shingles I'll need? **LAWRENCE STUMM, Colorado Springs, Colo.**

Roofing materials are sold by the square, or a unit that's equivalent to 100 square feet. All you do is measure your roof and divide its square footage by 100. Then add a little for waste. For a standard residential garage with no valleys, the coverage factor would total about 10 percent.

SLOPPY GLUE

I have noticed you apply glue to wood-with thicker shingles—and then tape up the seam with a cheap sponge. And you always get great results. But me, I usually end up with a mess. I don't know what I'm doing wrong. Please help. **FRANK J. KIRKLAND, Phoenix, Ariz.**

Mr. Kirkland! You should visit The Old House contractor Tom Silver. He sees lots of fingers. But here are my secrets for installing with glue. I try to sponge up as much glue as possible without rubbing it into the grain. Once in the grain, glue is hard to get out and, because it fills the pores of the wood, makes for serious staining. Or just let the glue dry and sand off later to remove any residue. Of course, you can finish the job by staining first and then gluing, but that doesn't allow time to do any finish staining afterward.

BUDGET WOES

Can you tell me how to put an addition on my house, with out going over budget? We're not too fussy, and we're not really cramped for space at our three-bed-room ranch. I have borrowed as much as I could, but I still don't have enough for the couple additions that an architect designed for me. **RICHIE POMA, Delta, N.J.**

If the financing can't be expanded, either the renovation design has to change or your choice of materials—including finishes, carpeting and the like—has to be reexamined. There's no magic that can get around that reality. It's only the words "cold" and "hard"—as adjectives far away from "warm." Once you've settled on a plan you can afford, staying on budget



WINDOW SASH

We need your advice about how we can repair the double-hung windows in our 1937 bungalow in Tennessee. The sashes on the side windows have all broken and need to be replaced. **RAY AND BONNIE COTTERMAN, Crossville, Tenn.**

The steps are simple. Remove the side sashes, the inner sash, the top pasting board (which holds the sash in place) and then the upper sash. Next, open the anti-pocket or the bottom of the frame, never force and clean out the pocket and attach it to the sash. Put everything back in reverse order. Then proceed, triumphantly, to the next window.

LAMINATED FLOOR

My grandmother is remodeling her kitchen and wants a laminate floor. Personally, I think she will be better off with the same solid wood. What do you think? **CAROL GARNER, Indianapolis, Ind.**

There's nothing wrong with laminate floors. They can't be refinshed as often as solid wood, but how much wear and tear is your grandmother likely to cause? Just be sure that the floor she installs in her kitchen has moisture-control urethane finish or is just finished with a high-gloss acrylic, which can stand up to all the warm kitchen spills.

ASBESTOS COVER-UP

I have asbestos shingles on my vacation house on the Jersey Shore. They're in good shape but require constant repainting

outside now. One is to hire a reliable contractor who will work at a fixed contract price. The other is to extend existing shingles once the soot has begun. Nothing sounds budget-farmer than asbestos beginning "While we're at it, why don't we . . ."

DET BRATHING

I've heard that cedar shingles for roofs should always be installed over shingle shingles. But then why is cedar fastened directly to solid sheathing?

JERRY NEUMAYER, Chattanooga, Tenn.

The reason is simple. After prolonged rains, cedar roof shingles will be washed off the way through. If the shingles are nailed to solid sheathing, they will dry quickly and curl at the edges because no air flows underneath them. The solution is to nail the shingles to shingle sheathing, narrow spaced strips laid across the rafters, with spaces between each board.

ong, so I'd like to cover them with vinyl siding. Is that possible and, if so, how do I go about it?

JONATHAN M. BOOTH, Philadelphia

Tim and I are two months on this. I'm for taking the shingles off in order to take care of potential underlying problems such as rot and insect infestations. Unfortunately, the process can be expensive because you'll have to do a thorough inspection contractor (costs in the thousand) and disposal of hazardous materials. Then, on the other hand, says you can bring vinyl siding over asbestos shingles with a regular nail gun that has a special setting to the nails used to cover them. That allows the vinyl to flex (expand and contract freely) in response to temperature changes. You'd still need to check to see if there is a long-decayed layer of siding under the asbestos. If so, the asbestos shingles must be removed. Also, be prepared the vinyl siding added on top of shingles will proper fit over and under windows, doors and areas that received

COLD COMFORT

I have three unglazed double-glazed double-hung windows with 12 lights above and 12 below. The outside panes are fastened with glazing points and putty while those in the middle are held in place with thin strips of wood nailed to the muntins. How can I keep condensation from occurring between the panes? Up here in Vermont's North star kingdom, that would block any view for much of the year—and contribute to deterioration of the glass.

DANIEL FRANCIS, Gorham, Vt.

You're breathing easier here, and you're going to live. You'll never be able to nail the spaces between the exterior and interior panes thoroughly, or muntins will always be a problem. Clear partial solution is to install new window seals with insulated glass. But high humidity levels in the house could still cause condensation buildup on the inside of the windows.

VENGEFUL WOOD

My son purchased my first house. It's in the Victorian style, built in 1893.

The hardwood floors still have a pretty good finish on them, but they have quite a few separation between the boards. Is there anything I can do about that, without pulling up the old wood or covering it with new? Also, the layered wooden risers have crown moldings that appear to be in good condition but have been covered with layers of paint over the years. I'd like to strip

them down to bare wood. Is it possible to remove the moldings, or should I strip them in place?

CAROL DOLGISH, Yulee, Fla.

Your floors have been expanding and contracting for 94 years and will continue to do so. That's the nature of solid floors; so don't worry about them. As for the wooden moldings, it's hard enough pulling them up, let alone take them down, and you might risk personal damage there and fire walls. You'd be better off stripping the moldings in place. Check at your home center to make sure you get an environmentally friendly stripper and then prepare yourself for a long, messy job.

HILLSIDE CARIN

Our 50-year-old cabin is built onto the side of a hill. The base is buried to these walls, which are concrete block, but you can walk on the lower, which has deteriorated along the door. Last fall, my barn burned down. I think we need some sort of insulation. Any suggestions? What do you suggest?

JON A. MURRAY, Brewster, Mass.

Whether or not you build new wood isn't the solution. If you've got insulation, aren't you going to get rid of it and may only future wood growth? The key is plenty of air circulation to keep the lumber dry. If the cabin is closed all winter and ached, you're going to have more problems. If you use your own wood, and the other doesn't, maybe all you have is a "summers-place" wall, that traditional favorite that most of us associate with such cabins.

FLOOR REDDING

I'm building a bungalow with milled rough pine flooring. It's nearly 1½ inches thick, but there are slight differences in thickness—not much, but too great to sand down. I used a good self-leveling liquid gypsum material that will allow me to lay vinyl tile and carpeting. Do you know of anything that would provide a suitable base?

THOMAS W. MASTERS, Wellston, Ohio.

If the differences in thickness are truly slight, don't worry where you're laying carpet. Any good padding should serve as an insulating base. But for the other areas, I don't know of any product that is truly self-leveling. Most vinyl-floor installation simply mount on the floating material, then may tape and smooth it to feather their edges.



Age Deepens The Character.

Formby's® Reveals It.

Nothing compares to the warm, rich look of wood furniture that only comes with age. But often it's hidden by a dark, worn finish.

To uncover that natural beauty, rely on Formby's® quality refinishing products.

From foolproof finish removers to protective tung oil, our time-honored formulas have

all you need for an exquisite hand-rubbed look. Trust Formby's because restoring wood is a beautiful tradition.



Uncover Wood's Natural Charm™



© 2000 Formby's Products, Inc.
Milwaukee, WI

PureTouch
The Filtering Faucet System

THE PROHIBITION OF TAP WATER IS OFFICIALLY OVER.



With PureTouch you can finally drink water straight from your kitchen tap again. The unique faucet has a filter built right inside. So it not only reduces the amount of chlorine, lead and cysts in your water, but also makes it taste great. What's more, an accurate indicator always lets you know when it's time to change the filter.

Plus, its pull-out spray makes kitchen clean-up easy. PureTouch. It's clearly the ultimate source for cleaner, better-tasting water. Call 1-800-239-6636 or visit www.pure-touch.com.



EXCLUSIVELY FROM
MOEN
BUY IT FOR LOOKS. BUY IT FOR LIFE!

HOUSE CALLS WITH STEVE

Building better kitchens and baths



Steve Thomas worked on a custom kitchen for a client in the Rhode Island School of Design. Some of the design's highlights: A built-in oven in the corner, no overhead cabinets, no island.

My concern in each design stems from my concern in eating. As the older of ten kids, I learned in an early age to find the best in the kitchen. My first significant culinary experience was a sumptuous Dagwood sandwich utilizing all the food groups. I was 10 years old, home alone, and the ailing, helpless taught me about the compatibility of various ingredients. In later years, I turned to the masters—Julia Child, Marcella Hazan, James Beard—and to the cooks of the world.

Cooking pleases me, but so does enjoying the fruit of my labor. Maybe that's why the way the space functions matters far more than the way it looks. So, when the Rhode Island School of Design invited me to Providence to teach a class honing “universal kitchens,” I couldn’t say no.

For my test dish, I chose one of my family’s favorites, fish soup. Although simple, it contains something of a ruse because of all the prep: cleaning the fish, making stock,



Get a professional kitchen or bath? See “Old School” Steve Thomas. He’ll visit a reader’s home on every front to help work out a renovation plan. Write to House Calls With Steve, This Old House magazine, 1100 Avenue of the Americas, 27th Floor, New York, NY 10036.

PHOTOGRAPHS BY CHARLES FREEMAN

HOUSE CALLS WITH STEVE

cleaning and dicing 24 ingredients and finally making a potato gnocchi and parmesan pizza that pulls all the other flavors together. The only hitch was that the kitchen was a prison room, a work we built to eliminate design concepts created after five years of research by RISD interior architect Jane Longmire and a team of academics, engineers and materials manufacturers, industrial designers and students. As a prototype, the kitchen had no running water or functioning stoves, so we relied on Providence chef and author Nancy Silver to do much of the actual cooking on portable burners set up at a side table.

Longmire gave me step-by-step instructions on using this new design as we did the preparation. The first thing I did was to put away the contents of my shopping bags, and I noticed right off the lack of measure, crockery, applesauce—no knives, knobs on the refrigerator, range, a dishwasher. Instead, two custom-made rolling ironing boards kept a “kitchen curtain” suspended to hold salt, herbs, coffee, wine and oils, with chalk and flour drawings for veggie and liquor goods below. The above-counter space even accommodated a built-in storage for coke cans, cookie sheets and crockpotts occupied a dedicated baking area.

Once we’d mocked the shelves, Longmire pointed me and the fish toward the kitchen’s centerpiece, a 6-by-3-foot island comprising sink, work surface, cutting board, cooktop, pasta cooker, incinerator and three pull-up-down drawers. The appliances, of course, were mock-ups. What did work, though, was a feature I think is the most important innovation of the project: a horizontal height adjustment that raised or lowered the whole island. I discovered immediately that the 36-inch standard countertop height wasn’t low for me; 38 is perfect. It’s not hard to envision primer tools such as those I found in the drawer: the stovetop out of stone. Pass your butter, and the counter rises or lowers to your preferred elevation. A sturdy rolling cart, which provided extra counter space, had a crutch to raise and lower the rig. All the counters were solid surfaces, polished smooth, with a lip running the edge to prevent spills and with no sharp angles to collect sponge. This older concept makes everything a dream to storage up afterward.

As I went through the motions of cleaning the fish and the gnocchi, the incisorons and onions, I did find the work space limited. But Longmire pointed out that one of the kitchen’s design concepts was to eliminate wasted space and motion. Thus the counter (continued on page 14)



With project fixed, Jane Longmire drew lines for elevations in the above-counter island. Notice the rolling cart to store produce and tools for the breadbaking. If you make a lot of soups, it’s great to have a flat shelf above the counter to store cans. The cart also sits at a height to accommodate a couch sitting on a sofa. Thirty seconds standing on the crutch to adjust the adjustable surface—which has a range of 28 to 46 inches or high by 40 to 23. Standard clearance is 36 inches high, designed with a 3-foot 6-inch clearance in mind.



Why are these folks cooking? Because filling dogs pots and pans with water just got a whole lot easier thanks to the sleek, ergonomic spray nozzle. Each nozzle comes with fixtures for fast and easy setting. Silver doesn’t have to measure. Just unscrew the spray nozzle and place it over the fixture pot from end to end. Longmire says she uses the sprayer as a colander and former like the water. If he were adding spaghetti to a pot of soup, she wouldn’t even need a pot. The ideal solution would be an economy juicer under

KRAFTMAID CABINETRY HAS WHAT'S IMPORTANT TO YOU

Industry-Surpassing Construction Features
Consumers Digest Best Buy Quality and Value
Attractive Cabinetry Styles and Accessories
A Selection to Satisfy You and Your Budget
Easy Do-It-Yourself Installation



KRAFTMAID CABINETRY. THE BLUEPRINT TO ANY SUCCESSFUL CABINETRY PROJECT.

Call 1-800-581-4484

To receive a free color brochure and the name of the KraftMaid dealer nearest you.

www.kraftmaid.com

KraftMaid
Cabinetry



IT'S NOT ONLY THE HIMALAYAS THAT
SEPARATE US FROM THE COMPETITION.
IT'S ALSO THE PRICE.



JEEP CHEROKEE SPORT

The Himalayas have long been recognized as an ultimate challenge. And the legendary jeep Cherokee Sport has long been recognized as the ultimate sport utility to take on any challenge or any terrain. That's because Cherokee has set the standard in off-

road travel with go-anywhere features like Quadra-Link suspension and multi-link construction. Rubber floor provides maximum strength, durability and handling. And a remarkably powerful 190 horsepower Power Tech engine and the most four-wheel drive choices in its class,² and it's easy to see why Cherokee has won legions of adventure lovers all over the world.

¹Competition of engine, transmission and driveline choice. ²Our Work Model Sport Utility is a registered trademark of DaimlerChrysler.



Box Jeep Cherokee Sport is not only famous for legendary capability, it's also renowned for outstanding value. Especially when you consider that it comes with great features like air conditioning, power windows and locks, and Remote Keyless Entry; all at no extra charge.

So whether the challenge is the treacherous terrain of the Himalayan mountain range or simply a year that

Jeep
THERE'S ONLY ONE

HOUSE CALLS WITH STEVE

New and improved

Your kitchen doesn't have this layout. In 10 years, it might.



(continued from page 14) and sink were unnecessarily narrow and easily reached without stooping or by reaching in a wheelchair. The dishwasher was programmed to be small, efficient and quiet, intended for more or less continuous use, in place of a weekly wash-up task. As the forces of culture get dairy, they go right into a dishwasher. With shore oysters, one can be running while the oysters wait to be filleted. The more I tinkered with this concept, the more I liked it.

The island was located with care. There were pull-out nests right over the sinking or snarling zones, soled reach-bars-a panel to operate dishwashers, an infrared sensor to activate the sink's washing jets and touch buttons for the sprayer so that it can turn off and reduce the jet pressure. While the idea of touch buttons for the plumbing fixtures may sound like KGB (Keep It Simple, Stupid), the project as a whole is meant to stimulate imagination and challenge our preconceived notions of "kitchen."

Does the trade-up have any bearing on a kitchen I'd build or renovate now? You bet. I'd measure my own腰带 (waist) to accommodate people of different heights. While this would take

some engineering, it could be done with off-the-shelf parts from any hardware catalog. I'd also avoid any extraneously high or low cabinets, reserving space for a walk-in pantry to store canned and dry goods, serving platters, lobster casseroles and espresso mugs. I'd use hot water da. Finally, I'd decentralize the appliances. Refrigerators similar to the project's "decentralized" ones (opposite doors) and freezers: drawers and cabinet units that can be placed throughout the kitchen; are already sold right off the showroom floor. See, sturdy, separate hobs, steamers, deep fryers, woks and wassers for bread and plates are commercially available, in size—of course—soapsuds and even. And I'd take a close look at the drawer dimensions now being imported from New Zealand.

The prototype I've done, formally called the Rhode Island School of Design University Kitchen Project, is on display at the Smithsonian Cooper-Hewitt National Design Museum in New York City through March 23. If you're planning a kitchen project, my advice is to grab your sketchbook, and pay a visit. Bon appetit. ■

Why is our company tagline a question?
In part, it is meant to be an invitation to you.
In part, it's a question because we really need to know. We don't have all the answers. We make software and we watch you use it. And we've noticed you tend to do some pretty amazing things, some things we never would've imagined. We do a lot of our best work trying to keep up with your imagination.

So, for us, this isn't just a slogan; it's an honest question, and how you answer makes all the difference. So we'll ask it again: Where do you want to go today?

Microsoft
www.microsoft.com

Saving the Ranch

A new kitchen is the key to the makeover of a 1950s suburban classic.

W

hile white-painted pine surrounded the gray stone fireplace in northern New Jersey, her house embodied her conservatively taste. The brick-faced raised ranch had been built in the 1950s, and although roomy—with five bedrooms and three bathrooms—lacked a certain class. "Take that total face," says Lester. The gray metal cabinets in the kitchen "looked like they belonged in a closet," and the pastel green, blue and gray tiles in the three bathrooms were dreary eight inches. But a woman isn't a problem with decor. Lester and her husband have three children (between the ages of 3 and 13) and earned such 1950s monikers as a "Family room," an eat-in kitchen, and a master bedroom with a four-poster, wider than just a shower. "When we bought the place five years ago, we knew some day we would love a lot of work to do," she says.

Just how much, she could never have imagined. Sitting down with an architect friend, Lester mentioned that she wanted "something prettier" in a house, while her husband wanted to make sure whatever they did was "not too fussy." For his part, the architect, Bill Kunkle of Wrentham Architecture in Library Corner, New Jersey, wanted to make sure the over-sized house would blend in with the neighborhood. "Not to build a two-story hump on top of everything would have overwhelmed the street," he says. After eight months of work, the resulting house looks flawlessly distinctive. It consists of a considerably enlarged floor plan (an addition and an all-new system) and has grown from 3,240 to about 3,600 square feet. But it still stands comfortably on top of the original house's foundation—and even removes much of the landscaping.

Indeed as it sits, the project didn't begin as a whole-house makeover. The couple set out to simply spruce up the kitchen and add a family room. But, because the budgeted stepped-up a steep hill, "we

BY CURTIS RIST



The newly renovated 1,600-square-foot addition adds a 900-square-foot private room, displayed on separate glass-paned cabinets highlighted by custom lighting. Opened up to the kitchen, a dark-stained cherry island contains a sink and a Sub-Zero refrigerator. Inside the room is covered with limestone, marble and slate. To the right, the kitchen of the original 1950s house.

TRANSFORMATIONS

IT'S GREEK TO THEM

To add a touch of respite to the fallow house, architect Bill Kaufman leaned on an ancient Greek tradition by adding classical columns. He chose the simplest design—a six-column kentaur. “It’s like a Greek temple,” says Kaufman, “but inside and out.” A pair of columns bracketed out-of-repair doors in the house’s meager front door, where they both support a portico and encompass a ladder straining from the exterior above. Another pair made of pine beams plus sand in the lighting recesses where they make a passage to the living room and “define the table area as separate from the main walls,” says Kaufman. In the new kitchen-family room combination (see photo), Kaufman trumpet set the table with a tall test and added a limestone base supported by four columns for strength.



These four-beam kentaur pillars were then sheathed with Revere columns that unified the project. All corporate clients “haven’t had to do much to make them together and seem in it,” says Kaufman. Standing next to a precast column with a precast top, “The columns are there to hold up the house, but they also create a little bit of a definition between the family room and the kitchen,” says Kaufman. Columns for the one-story brick porch are spaced every 12 inches—“an architectural measure,” says Kaufman.

48

couldn’t just put on insulation with a water tank above and be done,” says Lerner. That would have destroyed the gaudier rooms, the very thing they liked most about the place.

Instead, they reconfigured the house from the inside. In the original floor plan, there were two tiny bedrooms upstairs and three down stairs. Finding space for a family room meant moving the master bedroom up. “Which was fine, except I have three children and you can’t have one down and one up,” says Lerner. “My thought about taking over the upstairs was, except when you’d have those kids on the first floor, basically running the house—and we didn’t like that.” Like a domino chain, the renovation spread from room to room. The family room and a new entrance hall ended up replacing most of the bedrooms, and two more were added upstairs. Along the way, every detail in the house—from windows to floorboards—changed, says Lerner. “Once we started fixing some things, we decided to fix everything.”

In redesigning the house, Kaufman made only minor changes to the original brick facade on the front and sides but replaced the wide cedar shingles on the back with shingleboard as well as shingles cut into a wavy pattern on the gables. The house originally had a slate roof—“crushed in a barrel truck”—but it could not be salvaged during construction, and the cost of replacing it was too high. “Somebody mentioned \$75,000,” says Lerner, who with her husband

The core of the new kitchen fits nicely over the space occupied by the old one, but the room is more open to adjacent family areas and breakfast area.



PHOTOGRAPHS BY JEFFREY PLAIN

now takes 40K. “The four most expensive words in renovation are ‘When you’re at it...’ Before you know it, it’s simple because there are so many options and choices now planning and time-saving. Just be prepared for it. It happens all the time.”



**"Let the Form of an Object Be What it May,
—Light, Shade, and Perspective
Will Always Make it Beautiful."**

John Coplestone



Brighten your perspective with solutions designed to suit lighting needs in the same manner and of the same materials as the originals.

REJUVENATION
LAMP & FIXTURE CO.

Over 200 chandeliers, wall brackets, porch lights and lamps including Victorian, Arts & Crafts, New Orleans and Art Deco styles. Request our 150-page catalog.

Toll free 1-800-3 GETLT 609-940-9740 • Toll-Free fax 1-800-LAMPFACTS 656-7430 • www.oldlamps.com



The rear of the house shows a dramatic change. Andie found a shared foundation and some exterior framing, which formed a section of the original house, above, in the new one, right. Doors from the patio lead into the breakfast area.



hand-crafted material for asphalt shingles with a slate look. "We're not trying to copy them, but we were didn't want to spend that much money on a roof," Kaufman says. He gave the whole roof a classic look by using copper flashing, and even copied the town brick Shingle Style for the house's design. "It's traditional but a lot of fun," he says.

As in all renovations, some surprise discoveries really helped up the grand design once the work began. While researching for a new exterior that was to be beneath the new front steps, interior designer Paul Cohen of Humanitas Builders of Whitehouse, New Jersey, discovered a 5-foot thick block of concrete that had been dumped during the original construction. "We spent a couple of days problem-solving that one," he says. But an even larger problem layed elsewhere: Kaufman had discovered a spectacular roof that rose up in a shallow pyramid above the two gables at the front of the house.

Expanding a Ranch

The original plan of the house's first floor, below, consisted in few rooms—namely, a family room, an eat-in kitchen, and an entry all but invisible into the rest. By shifting the entry to a central location, tight, and moving the bedroom upstairs, architect Bill Kaufman reinvigorated the traffic flow. Formal dining room, living room and den are grouped at one side of the house; kitchen, family room and the guest room—which is actually used as a computer room by the children—at the other. "What this house needed—in addition to some extra space—was a clear sense of direction," says Kaufman.



PHOTOGRAPH BY JEFFREY L. HARRIS FOR ENHANCEMENT PHOTOGRAPH BY ANDIE GARCIA

ABOUT THE ONLY THING IT CAN'T DO IS GRILL.

The Craftsman Project Center is built to go where the job takes you. Like your driveway, for instance. With its galvanized steel work surface, five tool drawers and locking five-inch wheels, it's everything you need. To get a closer look, go to www.sears.com/craftsmen. You'll find it can handle everything but lunch. Of course, it does have a place to hold a drink.



MAKES ANYTHING POSSIBLE™



©2000 Sears, Roebuck and Co.



Venting a kitchen stove is an essential—but often costly—proposition. To cut down on the pre-upgrade costs entailing *from the Lennerts' kitchen*, the builder installed the fan in the oven, rather than extracting it to the vent duct itself. "It's more motor powerful than the typical vent," says construction supervisor Al Sauer. "And when you turn it on, you don't hear a thing."

accuracy hot, in the overall scheme of things, it was "probably a waste" compared with building a new house.

As with many whole-house renovations, an entire team of design professionals—in addition to the architect—became necessary. The Lennerts turned to interior designer Frank Dell'Donne of Four and to take charge of the house's fixtures, materials and furnishings, and hired John Picone of European Country Kitchens in Pat Hills to design the kitchen. Designers can be pricey. Some area kilo Dell'Donne charges between \$10,000 and \$30,000 to pack out kitchen tiles and wall colors and shop for fixtures for a house. Picone charges a lowered \$175 an hour to plan a kitchen. "We spent hours working a lot of leadstabs," says Dell'Donne. Lennert calls the two indispensable. "Without them," she says, "I would have gone mad."

TOM WILSON

"Major changes and small modifications by keeping one item of code. The easiest way to do this is to credit on modify uppers or expanders from the Counter All sizes overcome a lot of restrictions."

Besides planning how much room will look, Dell'Donne made

sure that the look carried over from room to room. This rule of thumb can be seen in the pale white ceramic marble in the Lennerts' kitchen floor and the limestone of a smaller counter in the laundry, as well as the antique white glazed terracotta tiles in the downstairs guest bathrooms. "The goal is to have the interior design of the house act as a reflection of the exterior architecture," says Dell'Donne. "That's a task house owners in the middle of a whole-house renovation just can't achieve alone."

After eight long months of living in a rented house with many of their possessions at home, Lennert and her family moved in their new abode. While Lennert makes change at the uninvited kitchen, her children move into the media center in the adjacent family room. She and her husband love the privacy of their upstairs master suite, and their 13-year-old daughter even has a sunroom crammed bulging projecting from her room. "You can feel like Juver," says Lennert, red all new—except for the white-painted mantelpiece in the living room, the only interior detail that survived the makeover. "Always liked it," says Lennert. And now, it reminds her of a house's remarkable journey. ■

It was a dark and stormy night.

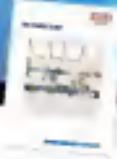
Cool.

roof windows and skylights

VELUX



For your free brochure call:



1-800-283-2831 www.VELOUX.com

Every minute



Joseph & Dolores Andrade (D.L.), Inc.
P.O. Louisville, Florida

someone buys a



Universal Garage
Clothes Store Chain Franchise



Ronald Rummery Group
Cincinnati, Ohio

of every day,



The Shuster Family
Shreveport, Louisiana

Clopay garage door:

*So beautiful, durable, and reliable,
you'll want one for your home, too.*

If homes in all major American cities are discussing what a difference the quality and style of a Clopay garage door can make on their houses, The next time you have a visitor, call 1-800-2CLDRW (1-800-225-3789) for a free brochure.

Or visit our website at www.clopay.com. Because there's a Clopay garage door with just about everything.



America's Favorite Garage Door™

©1995 Clopay®. All rights reserved. Clopay® is a registered trademark of Clopay Corporation.

brick area (opposite) with a modern design for the garden. The brick pavers make the walkways look like a paved courtyard, except at Bloomsburgh, 400 miles down, landscapers have built paths made of reddish-brown sand-colored brick that looks like a decorative brick, and sections of old hand-made brick.

Feat of Clay

Brick's earthy elegance adds grace to patios and pathways.

BY ANDY MCGINTYCK

In searching out a building rough, professionals may begin by looking at a chip off one side and a chunk of native rock on the red. This is a common brick—large, wider and rougher than the single-skewed face brick used on building facades—and it's surrounded by thousands more that were up my driveway in Mexico. These brick folks never say "junks"; I once made them go somewhere in the Midwest, possibly near Chicago, where my brick man got them, probably used as part of a factory wall, he said. Now they're lying down, nestled under the palm trees in a Florida back yard.

When I decided to extend my outdoor living area from a back lot to an otherwise dead-pant roof back, brick was the only material that really made sense. It already had a weathered look, reflecting solar's skin through, and why not? Passable flagstone or limestone, common for Northern patios, looks dead in south Florida. Kenyon, a native rock not from ancient coral reefs, would have looked great, but I couldn't justify spending \$4 a square foot for the material alone. That left brick, which—in my eye at least—has no earthly connection that beautifies landscapes: green plants and bright flowers. And brick is relatively affordable. In all, I paid just over \$8,000 for my 700-square-foot patio. I went with salvaged brick even though they were a bit more than 10 years old. I stuck used brick here a profile, antique warmth often lacking in their more pristine cousins.

These hard-working Grecians made my hardscape-shaped patio in two days. First, they dug out 8 inches of topsoil and replaced it with 8 inches of sifted builder's sand, screeded with rough pebbles—equally an inch over 10 feet—to drain water away from the house. Then, with a gas-powered tamper, the three of them wet the sand and pounded it into a fine base. After that, the Maestros—a son

PHOTOGRAPH BY RICK OLIVIERE

of brick onto the backyard, the big guy tamped them in the two smaller guys, who laid the brick out on the sand bed in a herringbone pattern. For hours on end, it could hear the dry clink of each chunk of hard clay bumping against Fred clay.

This was basically the same material western settlers used in Mesopotamia 10,000 years ago, which makes brick the world's first modular building unit. About 7.5 billion brick stamps from kilns in the United States every year, enough to build two Great Walls of China. Most are blended, remixed and fired in highly automated factories, usually topped by top beams and a wooden trellis above with vines. Then there are brick like concrete, made long ago, when by hand, and rescued from demolished buildings. Nobody knows how many salvaged brick are still around, but the appeal of recycled is that it keeps the demand high. (See "Mining the Midwest," page 52.)

Scarcity, minus-inset and irregular brick have a cult-like status.

Many even have names. When I pry up my brick and save it in case, I see the words "Chicago Brick Co." engraved on the clay. The label, although less evocative than some of the more—Snowball, Goo City, Dublo, Mexican Hallow Enza, Fox Bull—all exotic manufacturers don't stamp collage-in bricks, so collectors have to trust their manufacturers to label their specimens. For those like me, brick suppliers are the best place to purchase materials.



OUTDOOR BRICK PIECES

1. Water-Glazed: Enhancing the mold with sodium silicate creates glassy quartzes on antique pottery and modern ceramic stonewalls. Since the 17th century. **2. Reclaimed Granite:** This process uses discarded granite, marble, and travertine to recycle the elements of old stones. **3. Stamped Bricks:** Standard stamped patterns are designed for a license in Brazil. **4. Custom-Bricks:** A unique design can mold large, thin tiles from striking and green brick, like a gaudy testicle, plus 25-pounders always off odd shapes. **5. Iron-Speck:** A mottling firing places this iron in the clay, creating speckled spots on the surface and a dense interior that withstands the weight winter freeze. **6. Bell-Ledge:** A one-piece cap for pillars and the ends of garden walls help support the work. When the grooves are filled with mortar, the rail back holds like fine granite blocks. **7. Byzantine Glazing:** Overlaid clay tile is a wet mix producing a smooth-clinch brick used for edges pools. **8. Mangano:** Powder creates the metallic color. **9. Wall Gap:** Hollow rooms make the brick lighter, decompose from heat and gives the interior a keyway for anchoring joints to each other.

The crew edged my patio with side-by-side brick, following the curve I'd laid out with a hose. A few bags of concrete poured just outside the new area held every thing in place, and sand swept over the patio fills the cracks and lets the rain drain through.

Laid on the ground up North, these salts, calcium brick would split and damage any weathered muds and loams. Calcium-silicate requires hard, "stone weathering" brick, and they need to be surrounded by a deeper base to forestall frost heaves. In Massachusetts, the Old House landscaping contractor Roger Cook uses dry clay down to 12 inches, then installs a four-inch blanket of gravel topped with a serving bed of stone dust, he says.

Here in Miami, the problem is related heat, not freezing. Falling humidity,

Did I MAKE A COMEBACK?

You tell me.

He hated that bald spot. He yelled at it. He threatened it.

But for once, John McEnroe had met an adversary he couldn't intimidate.

Until he attacked it with Rogaine Extra Strength for Men.

Look.

That is one very strong return!

Surprised? You shouldn't be. For 4 out of 5 men with moderate hair loss, Rogaine Extra Strength is proven to grow hair or at least stop hair loss.*

One caution though: Don't get sidetracked by weaker bargain brands. They're not nearly as effective. Only Rogaine has Extra Strength, proven to grow more hair, thicker hair and grow it faster than any bargain brand.

It works for 4 out of 5 men.



*While most men will respond to Rogaine, most will not respond as well as John. About half of the men who respond to Rogaine have moderate to severe regrowth. The other half of men stop their hair loss. Use only as directed. Individual results vary. Not everyone responds to Rogaine. ©1993 Pfizer Inc./Rogaine Consumer HealthCare.

papaya and avacado quickly decay into black mush. (The bay leaves just brown and curl off onto the norounding stems.) At least that seems easy to boast away. What's worse is the fungi and algae that grow on the damp brick, ravaging them ugly, dispiriting and dasarian to walk on. So every six months, I sweep down the patio with pool chlorine mixed 50/50 with water in a pump sprayer, and the old brick we see again, with their lovely pebbled-tan color and perfect imperfections the muck never reaches.

Melting my brick again, I can't even notice something new. I hear the brick off and square. Poured it such into the "U" at Chicago U, the point of a human thumb. Even the delicate weeds are there. I think of the men who made these bricks in long ago and of the masters who methodically adorned them with mortar and built every building, now pulled down and car red far away. And then, when I hold that brick exactly right, my own thumb fits neatly into the hollow. ■

Moving the Midwest

Chipped at the corners and spattered with mortar and old paint, salvaged brick may look interesting, but to Luis Floresco these old blocks of clay are a valuable commodity. Floresco, a brick distributor in Elgin, says most Floresco is advertising for brick salvaged from buildings demolished this year at 10 million tons, in Detroit, St. Louis and Chicago. "I got a red car at 30,000 Chicago Comebacks, and I can't believe them in stock for more than a day," he says. Floresco received numerous orders last month to replace old Jeff Flanigan, owner of Wrigley City Apartments Block in Chicago. Last year, Flanigan shipped nearly 150 trailer loads of Chicago Comebacks to developers who wanted to build parking, walkways, and gardens walls. Floresco says if left in contact with the ground, they will soak up water and disintegrate after a few hard freezes. Floresco hires piece workers, many of them Amish, to do the back-breaking work of salvaging. They use sledgehammers for breaking plaster or cast pavers, axes and crowbars to hammer at crumbling buildings. Thus, brick by brick, the workers strip off the old mortar—a tree will stand between them and the brick—and stack the brick on a pallet. "Each 2,000-pound pallet holds 200 brick and takes about 40 minutes to fill," says Floresco. Some salvaged brick—Democrats' original no-testimony—have become so scarce that they sell for \$1,000 apiece. Without Henges, a trademark architect in Elgin, Floresco, says one client sought a warehouse and then stimulated it to get all the buildings to wreck," he says. —Hope Davies

From Chicago...



A brick salvager shows thousands of square feet of mortar from a Chicago U-structure. Dated out on a double-decker public 1,000 miles south, Floresco salvages colored brick and character in old Florida buildings. Photo: Floresco

The Old New Orleans Street Tree. But Floresco isn't limited about recycling out-of-chicago-treasures, which retail at \$5 each each. "There'll always be buildings to wreck," he says. —Hope Davies

To Miami



GET MORE

Detail sander, power scraper
and oscillating saw all in one tool!



DO MORE
Scrape, Sand, Saw.



SPEND LESS

60% price savers



Find more! Find
detail sander, power
scraper and oscillating
saw tools. What's
new? Want a
MultiMaster now? Simply call,
or fax your request for immediate delivery from
our toll-free number or participating Maytag dealer.
near you. To learn more
about the MultiMaster,
ask for our free
brochure and poster.

CALL 1-800-441-9878

Get More
Oscillating Professional
Kit includes carbide
nips, great cutting
blade, and
segment knife.

Detail Sander
Oscillating grinder, sand,
metric stone and
concrete. Won't
heat up.

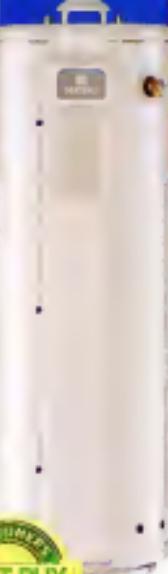
Oscillating Saw
Cut glass to remove
damaged tile without
breaking surrounding
tiles or creating
excessive dust.

Segment Knife
Easily shear rigid
materials like floor
tiles, linoleum,
carpet, plastic
and leather.

The new MultiMaster
is a true multi-purpose
tool that saves hours
of time. With the
MultiMaster, tooling
is just the beginning.

Now
Tooling
is just
the
beginning

NEW!
HOT WATER
BY MAYTAG.



Legendary Maytag performance and dependability
in a water heater - an idea that makes sense,
and solves problems!

Loaded with maximum water heating power,
so your family will never run out. Built to last
longer, with warranties up to 10 years. Equipped
with patented Jetforce™ self-cleaning design and
other energy-saving features that will save you
money on operating costs every day!

A Maytag Water Heater is an important investment
in peace of mind, to keep your home and family
clean and on schedule every day! To find out more,
call 1-800-360-8867 for the name of your nearest
Maytag Water Heater Dealer.



MAYTAG
WATER HEATERS

Maytag is a registered trademark of Maytag Corporation and its subsidiaries. Inc.
The MAYTAG logo is a registered trademark of Maytag Corporation. ©1998 Maytag



©1998 Maytag

W

hen it comes to working with lead paint, Tom Silva advises his store plenty of things wrong. "I used to have a tall shelf stock and sand it until the air was filled with dust," says the This Old House general contractor, who's been in the business for 33 years. "The damage, if there is any, had a really long delay."

Nate, Tom's day of modest unknowns has arrived. He has volunteered for a study by the Harvard School of Public Health to determine how much lead his houses have tapped up. Lead causes colic, so houses become the source of great expenses. Using a sophisticated X-ray fluorescence analyzer, Harvard researchers have already found dangerously high levels of lead stored in the bones of dozens of other contractors and hapless house owners; their levels registered high enough to put them at four times risk of hypertension, asthma, kidney failure and memory loss. What will they find in Tom? Serving a client at Boston's Channing Laboratory, he flies through a magnetometer as the X-ray machine zooms close to his head. In a half an hour, he'll know.

Lead paint, long suspected as a health threat to young children in Highland Avenue housing, is now affecting a newly unexpected set of victims: house renovators. "Some of the worst cases of lead poisoning I've ever involved were situations in which the painter dug a wonderful Vic tuxedo, rolled up their sleeves, put out the felt underlay and great roses," says Dr. Howard Hu, an associate professor of environmental medicine who is running the Harvard study.

The full extent of the problem is not clear, so the Harvard research team focuses on poisonings caused by house paint. But in Massachusetts, a state famous for its strict lead regulations, a report documented 382 cases of severe lead poisoning in construction workers from 1991 to 1993; 242 were house painters; 173 were professional lead paint abusers. Another 38 were house owners removing their own homes. Richard Balde, who coordinated the report, says due to "gross underestimation" the number of home-owners likely to have high levels of lead in their blood "If they're not tested, there are no statistics," he says.

Such poisonings are completely avoidable. Lead underneath, lead-based paint is not a health hazard. You can only take lead over it without danger; lead cannot be absorbed through skin. But lead in scraping or heating off the paint creates clouds of lead-laden dust that can be inadmissibly inhaled or swallowed. Balde found that many people—even professionals—worked without respirators, ate their lunches without washing their hands and faces, and smoked cigarettes coated with lead dust. And the

BY CURTIS RIST

Got Lead?

Smart ways to deal with layers of risky paint



PHOTOGRAPH BY BENJAMIN OLIVER

With its short-life durability, ease of application and self-leveling consistency, lead paint was the painter's tool of choice for decades. Those qualities come from powdered lead carbonate, which made up more than half the weight of some paint mixtures. Although lead was banned from use in houses since 1978, a few asbestos-containing, such as those for repairing roofs, still contain a small proportion of the toxic metal.

They Got the Lead Out

In the middle of a renovation blitz in Woburn, Massachusetts, Katherine and Michael MacPhail got a nasty shock. A routine visit to the pediatrician revealed that their 8-year-old daughter, K. G., had a blood-lead level of 17 micrograms per deciliter, well above the 10 microgram level the federal Centers for Disease Control considers safe for children. K. G.'s doctor prescribed an iron supplement and a diet high in calcium and iron, and the MacPhails halted work, yet six weeks later, the girl's lead level rose to 29 micrograms. A lead inspection showed they had lead paint up, as they hired Deo-Tech, a state-certified contractor that does the leaded removal TDH projects. Looking like a cleanup squad from Chernobyl, with their hairnets, masks and N95-particle face masks, Deo-Tech's crew started off work areas with two layers of 10-mil plastic sheeting and sheet tape. After three weeks of scraping paint down to bare wood, they disposed of everything in toxic waste, then stripped the house with trisodium phosphate (TSP). A final sweep by an inspector confirmed that this contaminated dust was gone. The MacPhails' statement totaled \$31,000, more than double the cost of a rip-and-replace job, but they have no regrets. "We didn't want to leave our daughters and ourselves," Katherine says. "And we don't want to contribute to our children becoming brain damaged." —Curtis Rist

most class subjects were power surges. "With one of those, you can really do a job on yourself in a day or two," Radke says.

Pains made before 1938 pose the greatest threat. Dr. Thomas Mintz, an epidemiologist with the Centers for Disease Control and Prevention, says these paints often contain so much lead that the dust from a pulverized chip just one

centimeter square can pollute a 10-by-10-foot room. "It's easy to see how a paint could quickly be contaminated many times above the safe level," he says.

The most important rule to remember regarding any paint is that the guys with loft stands and ladders, says Dr. Robert Johnson, an environmental researcher. Older children come in contact with lead paint and invent ways to play with it. An X-ray fluorescence detector shows just how lead can leach out of houses and do a body harm long after lead is gone from the environment. Johnson says, "The average house owner doesn't realize just how dangerous lead paint can be."

Given the dangers, getting a professional lead test is crucial. (See Heavy-Metal Detection, p. 54.) If lead is present, a home owner faces three basic choices: live with it, hand take some basic precautions, and strip, or remove it. In many ways, that approach is the best: "If your paint is in good condition, leave it alone," says Nick Fain, executive director of the National Center for Lead Safe Housing in Columbia, Maryland. "That's the safest way to protect your self."

Painted doors and windows need the most attention because they create minute amounts of lead-laden dust each time they rub against their frames. Fain's organization has (continued on page 17)





(continued from page 16) found, on average, about 11,000 micrograms of lead per square foot stripped to the rough between the walls and the stucco. "We're even found it as high as a million," he says. At least before 1980, stucco is considered safe by HUD. But if you're stripping outer coat soils with a wet sander at least once a month, using no cut-off discs, many owners could spend a plane of dust inside the house (see "Living With Lead," p. 38). Old stucco, when liberally lead-based, and bonded off to woodfill, can be scrubbed with plastic scrubbers or soft-side weather stripping, both of which usually don't cause the abrasion that generates paint dust.

The second option is encapsulation, keeping lead in place. This involves covering woodwork with special lead barrier paints or covering walls and ceilings with drywall or wallpaper. Meticulously applying a few coats of regular house paint is not sufficient. Although less expensive and less dusty than full-scale abatement, encapsulation does have its downside: The thick paints often crack and/or

When the *The Old House* crew began renovating the 18th-century farmhouse in Acton, Massachusetts, in the summer of 1994, home owners Terry and Sora Blackland (right), with their 3½ of the neighborhood. They had three children and raised one. Even so, a lead-based paint job covered their pregnant child, Eliza, then 8, and the crew insisted that she wear a respirator and protective clothing. "It's a good idea to do lead," says Terry Blackland. The \$30,000 abatement involved removing 25 windows and scraping paint off much of the trimwork inside and out. Eliza's lead levels remained in normal range, but her dad was further tested. Terry Blackland says she's glad her son's almost past the lead. "It gives us peace of mind."

get them if you are protected with the right respirator, and disposable gloves and clothes, poor family and neighbors are still at risk. A specialized lead removal contractor has the equipment and, most important, the experience needed to do the work quickly and safely.

Complete removal is not always necessary. If a renovation is planned, and those contractors who will be disturbed need to be warned, two sets of remodeling contractors should take care from their lead abatement brethren. "Create as little dust as possible, clean whatever is painted, and clean up well afterward." Then, once the work is completed, a final series of independent wipe tests should confirm that everything is safe.

That's basically the approach Tim has taken in the last 10 years.

Living With Lead

Although the amount of lead in paint began dropping in the 1960s as manufacturers used less-toxic lead compounds, houses built in late as 1980 may still be lead-tainted. A professional lead test is the only way to know for sure. If an inspection measures lead, that doesn't automatically mean that all paint has to be stripped. With adequate maintenance, one can safely ignore the presence of lead paint. When remodeling, however, don't take chances. Have lead paint professionally removed from any room where it might be disturbed.

Remediation Strategies

- Focus on doors and windows, the two biggest generators of lead dust. Maintain an intact coat of new paint over the old. Include wood door frames with weatherstripping or plastic liners.
- Wet-slop floors and woodwork with TSP or all-purpose cleaner. Do not sweep with a broom.
- Use acetone with MEPA filters.
- Seal edges, spirituality and dropups and let professionals clean. Wipe furniture with tack cloths or damp rags. Wash children's toys.
- Check the blood-lead levels of children under 10 years old with every pediatric checkup.
- If soil is contaminated, remove it; wipe shoes before entering the house.
- Never power-sand, dry-scrape, grind or burn off old paint. Use paint stripper to strip and paint removal tools to remove it more easily.

Lead Paint Test Kit

• Test all painted surfaces that will be affected by a remodeling. It doesn't cost a lot to test, hire a certified contractor to remove it before the remodeling starts. Do not attempt such work on your own.

While Remodeling, keep children, pets and pets away from work areas.

Better yet, leave the premises until the project is finished.

• Have all remodeling contractors wear respirators, whiteheads and work areas against dust, and wash-up compliant routes with shower.

• Wipe dust off lead dust when the remodeling is done. —Kerry Penney

"If there's a lead problem—and there almost always is—tell the house owner to get a licensed ablator, and have his deal with me. I don't go near it," he says. If someone needs stripping, he avoids grinding, scraping or using ground surfaces as much as possible. On the T.O.H. renovation in Wrentham, Massachusetts, he chose to rip off and replace the siding, rather than try to sand it smooth. "Why take the risk?"

Heavy-Metal Detection

Finding lead has gotten faster, easier and more accurate, thanks to new testing technology. Time was, inspectors relied on a laboratory or a chemical-saturated cotton swab to locate lead paint. Those methods are still used but have their drawbacks. Lab tests, although highly accurate, can be expensive—sometimes as much as \$3,000—and removing the sample leaves woodwork pockmarked with little squares. Swabs are cheaper and faster. Just rub one on suspect paint, and see if the tip changes color. But swabs can be hard to interpret, leading to false positives and false negatives. Also, a swab only detects the lead it touches, an inspector or homeowner will still have to gouge surfaces to find hidden layers of toxic paint.

Now, all an inspector has to do is rest a cell-phone-sized X-ray fluorescence analyzer (XRF) against a painted surface and push a button.

In a second, the device displays how much lead the paint has and how deeply it is buried. The cost for a whole-house inspection with an XRF runs between \$200 and \$600 and does not harm woodwork. —R.P.

Finally, the older XRF model at Tim's lag has reached its seeming end-of-life, and a nearby company offers another. It costs \$15,000. "That's well within the normal range," says contractor Sora Blackland. (A reading above 35 micrograms per gram of calcium would have been a problem.) Tim takes a momentary break of relief—then smiles. "I know it would," he says, as he bends off in another lead-side day on the job. ■



With a focus of lead paint, 189 X-Rays, Donald Penney (\$14,000 XRF) scans myriad of the paint to make it more objective. X-rays, which the device then detects.

Visit your local
Ni-Cd battery
recycling center:

In the US



In Canada



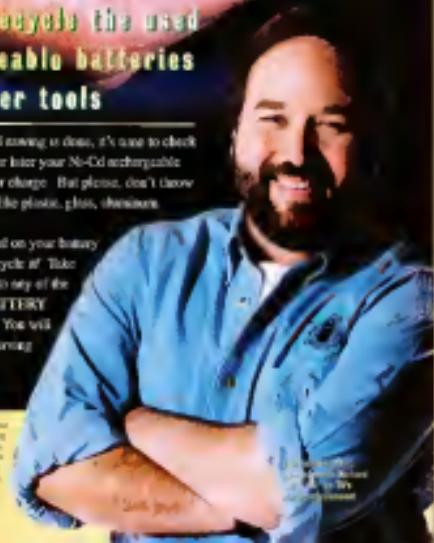
You know the drill, **RECYCLE**

Now you can recycle the used
Ni-Cd rechargeable batteries
from your power tools

After all the sanding, drilling and sawing is done, it's time to check your batteries — because sooner or later your Ni-Cd rechargeable batteries will no longer hold their charge. But please, don't throw them away. Recycle them. Just like plastic, glass, aluminum or old newspapers.

Just look for the recycling seal on your battery pack. If the seal is on it, we recycle it. Take your spent Ni-Cd rechargeables to any of the stores listed or call 1-800-B-BATTERY. For the location nearest to you. You will make a huge difference in preserving our environment. Thank you.

Hardy Windows, formerly known as Gwin, is a leading ultra-high performance supplier of replacement windows to the residential, institutional and commercial markets. We are also one of the largest manufacturers of replacement windows in North America. Our products are available through more than 1,000 independent dealers, contractors and service centers across the United States and Canada. Any of the following stores also recycle Ni-Cd rechargeable batteries. In the U.S.: American Builders Plus, Building Centers, GoHouse.com, Direct Line Stores and Stores, in Canada: Asset Power Images, Building Plus, Home Fixing Centers, Home Depot, K Mart, Quality Service Centers, AutoZone/Motor City Centers, Personal Dodge and Rona/Barnes & Canada.



For thousands of window styles and graceful bay-area treatments like shown come a little more often and last a little bit longer with HardiWindows and Hardi-Doors. Why? Five energy-efficient plus options stop heat, cold, outside noise and UV fading without tint, blinds or shades. And with our FastTrac™ concept you can select different kinds of glass for different sides of your house, so every room is its own climate.



comfortable while you're at home, no other window company offers more kinds of energy efficient glass than Hardi. For longer lifetimes at your home and a free brochure, call us today at 1-800-HARDI-ROAD, extension 500. Or visit us at www.hardi.com.

YOU ARE NOW FREE
TO BUILD™



All About Eaves

The most beautiful part of a root

第十一章

After dragging a new house or
reworking an old one, architect Robert A.M. Stern has come to realize
that the exterior, the overhanging eaves of the roof that add shelter, shade and a measure of mystery to what
might otherwise be a stark facade. "At first it's no big deal,
what an eave is or is not," says Stern, an insatiable
architectural history buff. "You can have blank, peeling eaves,
or they can be flaked down and thin. But I've never
heard anybody advocate the no-eavebox look."

Beginning early in the 18th century, estates moved into brick in the Georgian houses and remained popular until every subsequent architectural style. Elaborate bracketed estates reached a peak during the Victorian Influence period, name Adirondack mansions to fly beside with woe-care. In this con-

On *Business At Home*, *McCall's* describes how to make a "casual and friendly" atmosphere around the house. It includes tips on creating a casual meal, "jacketless" attire or soft-as-style party, areas extended from patios, sunrooms and grand Sunlight Styles. Yet shortly after World War II, builders of America's new, sprawling suburbs put up millions of new houses—and not for seasons of good danger. The advent of ready-made garage roofs over the car's original purpose, keeping water away from the house, did that.

Pulling bacteria ahead of form doesn't always work, however (Gutierrez has found). They can cling with barnacles and other fine sediments or simply plug up seafloor sand and flood channels and walls. Rivers, on the other hand, help keep sand from spreading. Rivers are also cleaner, even though they may be

They're like weather balloons as well. In contrast, when the sun rises high in the sky, a roof overhang blocks the intense rays and keeps them from heating up walls and penetrating windows. This makes for a dramatically



See *a* *Bivalve* A.M.
After disappearance
of *Atrypa brasil*,
Muscorum beneficium, a
gracile fully annelid
fish which while still
preserves a conical
posterior processus
stays on well as well.

could have, even without air-conditioning. Come winter, when the sun stays closer to the horizon, the room will again be warmed by direct light, without any interference from the sun's rays. "In every clause I can think of, you want the roof to project as far away from the house as possible," says Dickeyson.

TIME SPARES TIME

REHAB can be a way to save big but still make important improvements. "It's like taking care of your house," says architect Shelly Style. "It's a good investment." Style, who has a background in interior design, says that the exterior of a house is often the most important part of its overall appearance. "The exterior is what people see first," she says. "It's what they remember about the house." She suggests that homeowners consider the following tips when planning their exterior improvements:

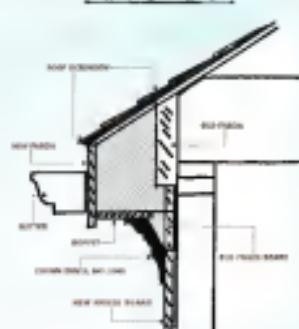
- Painting:** Painting is one of the easiest ways to update the exterior of a house. It can change the color scheme, add new architectural details, and even change the overall style of the house.
- Landscaping:** Landscaping can help to soften the exterior of a house. It can add greenery, flowers, and other elements that will make the house look more appealing.
- Roofing:** Replacing or repairing the roof of a house can be a major expense, but it is also an important part of maintaining the exterior of the house.
- Windows:** Updating windows can improve the exterior of a house by adding new frames, new glass, and new hardware.
- Exterior doors:** Replacing or repairing exterior doors can improve the exterior of a house by adding new frames, new glass, and new hardware.
- Garage doors:** Replacing or repairing garage doors can improve the exterior of a house by adding new frames, new glass, and new hardware.
- Exterior shutters:** Adding exterior shutters can improve the exterior of a house by adding new frames, new glass, and new hardware.
- Exterior siding:** Replacing or repairing exterior siding can improve the exterior of a house by adding new frames, new glass, and new hardware.
- Exterior trim:** Replacing or repairing exterior trim can improve the exterior of a house by adding new frames, new glass, and new hardware.
- Exterior lighting:** Adding exterior lighting can improve the exterior of a house by adding new frames, new glass, and new hardware.

When New York City architect Dennis J. Whedon designs a house, he shapes the eaves almost as soon as he puts up a pencil and a roll of yellow shrub paper. "There are only a few exterior components that an architect has available for making a dramatic impression," says Whedon. "One of them is a massive roof, and that's where the eaves come in. At wide eaves, you have a good chance of coming up with a design that looks substantial."

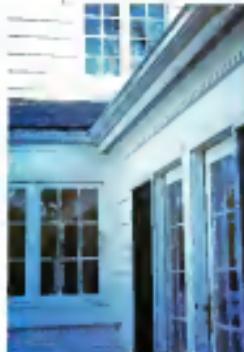
Whealich likes them a little more diminutive "because we are ever ready older," he says. Boxes can vary as wide from 1 to 4 feet and ones can be plain, faced with flat boards or embellished with intricate carvings. Whealich often coats the ends, the exposed underside of an end, with bead board that mimics the traditional finish on porch ceilings. "I think it's nice to have the quality and richness of the boards as opposed to flat plywood," he says. "And it doesn't matter if the house has wood siding or stucco. Porch and hand boards are both." For a finishing touch, Whealich frequently applies a thin blue paint for the trim. It helps highlight the corners, he says, "by giving the impression of sky coming right down to the house."

Dickstein sees no merit in a way to break up holding companies, especially when examining a mixture of those entities' past two years. Fortunately, it's easy to add or subtract a lease that won't, potentially speaking, when a roof needs re-shingling. (See "Law Hat.") "You can create a wonderful correspondence between the use of the census and the names of the houses," he says. "The magic comes at asking something like can we ride necessity and remove one or two of a house's more unattractive features." ■

三、五、七、九、十一



The opening up the exterior of a 1960s house in New Cross, Greenwich, resulted in a front door straight in the centre and designed a front-side extension. After stripping off shingles and physical alterations of the



built into golden bar, Schettino says, "The multi-stage seat reconstitution is far more efficient. And if you've rattling a room that has a curved ceiling, it's the only way to go."

此档由三版信息网提供 欢迎 购买正版图书 爱书网

DO YOU APPRECIATE SIMPLICITY?



LIFESTYLE[®]
HOME THEATER
SYSTEMS

An audio system should deliver sound to enhance the experience, not complexity to impede it. For example, the requirements for optimum audio performance with movie soundtracks differ from those of music CDs. Lifestyle[®] systems make these adjustments automatically, bringing to movies, music and sports the kind of sound Stereo Review rated "the short of astonishing."



BOSE
Lifestyle Home Theater
1-800-444-BOSE
Please Ask For Cat. 717

For information on all our products
www.bose.com/home-theater

FIRST AID FOR REMODELING ESTIMATE REACTION

It happens thousands of times every year. A loved one checks on a kitchen or bath remodeling budget — especially when plans call for pricey, traditional solid surfaces. To avert catastrophe, implement these actions immediately if visitors turn red, gasp repeatedly or cannot make intelligent sounds:

1

Stand behind visitors and place your arms around them or her.



2

Place Wilsonart[®] SSV Solid Surface material firmly in your hand; position it so visitors can see it easily.



3

Calmly and smoothly, explain that SSV provides all the prestige looks and performance of solid surfacing but costs 30% less than the leading brand.



4

Repeat until visitors are assured that visitor is breathing normally.



5

Install a beautiful, durable SSV Solid Surface countertop and enjoy a breathtaking return without a breathtaking budget!



We used new technology to make SSV thinner and lighter than traditional solid surfacing. It's offered in fashionable solid colors and classic-like patterns. And it comes with a ten-year limited transferable limited warranty. When it comes to premium countertop surfaces, SSV is truly a breath of fresh air.

WILSONART
LIFESTYLE

For your free SSV brochure, and the name of the dealer nearest you, call 1-800-710-8848, ext. 500, or visit our web site at www.wilsonart.com.

The Lien Machine

You don't want to get caught in it



When a home owner hires a contractor for a minor or major renovation, chances are good that the job will go well. Then no, disaster strikes and the following play out all the time: With high hopes of getting a quality job done on time and on budget, a home owner signs a contract and makes an initial payment. But soon after work begins, the project deteriorates before the owner's income ugly sighs of eyes. The contractor's crewmen, overpaid and underqualified, turn rusty and appear in odd hours. They drag gallons of drywall off the flower beds. At some point, the owner decides to ignore the contractor's plus—tiring nothing in the owner—and storm building his own finished design. Disgusted, the owner fires the contractor midway through the job, refusing to pay another cent. The contractor storms out of the home, dragging metal rebar bars across antique pine floors. Deeply disappointed and left with a mess, the owner is nevertheless relieved to be rid of his problems. Or so he thinks.

A couple of days later, a grizzled process server appears at his door and hands him a crumpled paper reading "Notice of Mechanic's Lien." Howing only in piecemeal what those words meant, he calls his lawyer and quickly learns that the contractor he fired to build could now own his home.

This is a legal闹剧 as round as 18th-century American law, court files brimming with liens, owners, and many a doozy of the contractor who has a legitimate gripe with the home owner. For whatever the cause and no one sees who's really to blame, contractors, subcontractors and even suppliers eventually file mechanic's liens to get money

they believe they deserve. Under the terms of a lien, a contractor can seek to place an encumbrance on the owner's house or land—or even on a property—in collect rather debt by foreclosing the title of the house. At the very least, a lien makes releasing difficult and selling impossible because it shows up on the title report. Worse, failure to clear the claim could result in a default of the owner's mortgage note, causing the lender to demand immediate and full payment.

From there, however, actually result in home owners losing their houses or having to pay off mortgages. Warning parties other settle their differences before litigation begins is either the court's discretion, whatever way it goes. But home owners embarking on renovations must be wary: The contractor's lien remains a powerful contractor's tool for harassing the dollar even when the work is already accomplished.

Home owners have been dealing with liens for more than two centuries. In 1791, President George Washington, poised to lead America's capital on the shores of the Potomac, discussed Secretary of State Thomas Jefferson's thought necessary to finance the major laborers working on the new buildings and convinced the Maryland General Assembly to enact the first state-wide lien law.

Today, similar laws protect contractors in all 50 states and mostly come into play when there's a valid complaint. However, disreputable operators use the same laws to prey on bad contractors and wring money from unsuspecting home owners. See "Laws, Please,"

Home Improvement Scam" on the next page.)

To add iron to the disgruntled contractor or the predatory scam artist, seemingly unrelated third parties can also file a lien against home owners. Steve and Allen Marsteller of Chappaqua, New York, thought their garage address was progressing nicely until they received a call from a local lumberyard. Seems the contractor hadn't paid for materials delivered to the Marsteller's job, and the bill wasn't cleaned up, the octopus might get slapped with a lien. The Marstellers were shocked. "If you give the contractor a progress payment, and he was about halfway done," says Allen, "for we had no idea that we were responsible to the contractor's supplier."

When questioned, the contractor admitted he'd used the Marstellers' money to pay off other debts. Pressured with being faced off the job and having his reputation ruined, the contractor wrote a check to the lumberyard. From then on, the Marstellers paid all suppliers directly and the contractor for his labor only.

For even more protection, home owners should get subcontractors to sign plain English waivers of lien in dry conditions or make deliveries. By signing a waiver document, which is available in any stationery store that carries standard legal forms, the vendor acknowledges that he has been paid. Paid written out, be sure when the project is finished.

Robert Bezzola, a professor at Albany Law School, says that before signing a contract, home owners should consider writing out a clause that could make it easy for a contractor

to file a loss. If that's not possible and a lien is filed, however, suggests requesting whether state law permits so-called financing around the lien. Home owners with good credit and sufficient assets can purchase a bond from a surety company for a nominal cost (in New York, \$1,000 of bond value costs \$20) and deposit it with the court of record. Should the contractor prevail, he could only collect against the bond, not the house. The owner would be responsible for the full value of the lien, but it wouldn't share up to the lawyer's fee report, leaving him to sell or release before losing the claim.

Home owners can employ other tactics to avoid the sting of a mechanic's lien, but much depends on the laws of a given state, says Washington, D.C., lawyer Spencer Stephen. For example, in D.C., a court may not enforce a lien if a supervisor files too late, but the wrong work done, doesn't necessarily notify the owner when the work started or isn't licensed. Stephen adds that the best strategy may be to attack not repayment with the contractor, but rather on a lien claim enforcement within three months, and a contractor deep in settlement discussions may negotiate to meet the deadline. However, some states allow deadline extensions of up to a full year.

Legal maneuvering notwithstanding, it simply may not make sense to contest a lien in court unless the dollar amount is large. To avoid going legal or in a complicated, expensive battle between lawyers, the best strategy may well be to reach a settlement with the contractor, however wounded you feel, and have the job completed by someone else. ■

Lien, Mean Home Improvement Scams

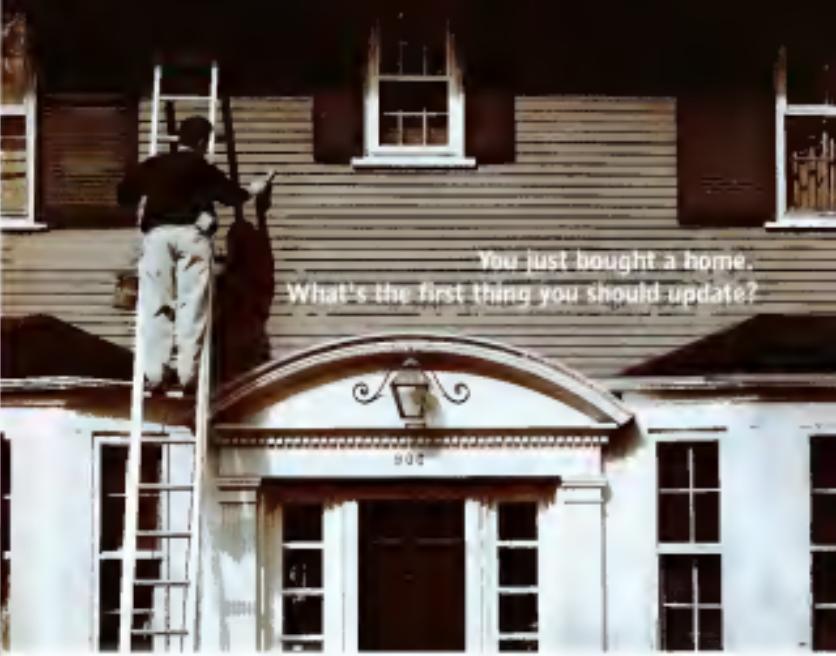
Any profession has its do-it-yourselfers, and renovation contracting is no different. A less-than-honest contractor might pressure an unsuspecting home owner with high-pressure sales tactics that end with the customer to sign some dubious paperwork. He may failed to read the entire document, the home owner may have committed to high-interest financing or even put his very ownership at risk. If he later decides to pay for poor-quality or unfinished work and the contractor files a lien, the red-wire begins. Some traps, however, are legal because the work isn't covered by law. Mrs. Thomas Davis, an attorney who specializes in construction law, says that most curtain and carpet installers don't qualify for fire protection because they aren't permanently affixed to the house. Here are other ways to protect yourself from scam artists:

- If the contractor asks you to sign an warranty agreement, which is similar to a marriage or trust deed, refuse and find another site. Never build your house for freebies.
- If it's a big job, insist that the contractor get a payment plan, which obligates your finance from machete? If there is none, this makes me like nipples.
- Make sure everything is in writing. Spoken promises aren't worth the paper they're not written on.
- Understand everything about the contract before you sign, and take it to an attorney if you don't. Just because the contract is fine, your point doesn't mean the language is safe to agree to.



There's 150 years of protection in every can of

To locate the retailer nearest you, call 1-800-US-STAIN ext. 399.



You just bought a home.
What's the first thing you should update?

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

910

Brilliant!

Copper shingles keep a roof in mint condition

Nothing for the birds" is the rule that people insist on when it comes to copper roofs. But copper isn't toxic gold could. "It does look like gold," says TOH contractor Tim Silva, pointing at the reflected glow as he holds down another shimmering shingle. "But it's a few weeks, it looks like dull gold to everyone."

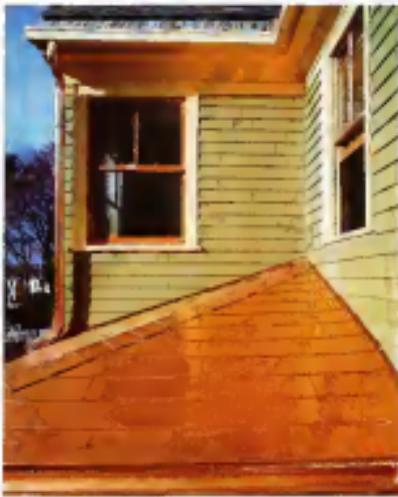
The "dull" is copper, and Tim is right. In just a few weeks, it will weather down grayly. In four months, the lovely marine bloom of an old paint. After installing copper shingles on the roof of the front porch of T.O.H.'s Queen Anne Victorian in Waltham, Massachusetts, Tim is perched on a scissor lift, laying the final courses on the side porch. Watching Tim's progress, home owner Christine Nelson is delighted. "There's just nothing more beautiful than a weathered copper," she says.

And there's nothing more desirable, at least in the ecologically aware world. "We guarantee it for 50 years, but the fact is it will usually outlast the house," says Alan Schatzke, architectural products representative for Vertex Copper Products in Rye, New York.

For centuries, these virtues—elegance and durability—have made copper a natural roofing choice around the world, especially for the ages structures from European cathedrals, Roman temples and Japanese shrines to government

BY BRAD LEMLEY

buildings, museums and some 19th-century American houses. Copper roofs have traditionally been made of hand-crafted or machine-poured. Although copper shingles entered in the early 1980s, demand has increased dramatically over the last two decades, thanks to mass production, national distribution, aggressive promotion and real consumers' demand for quality materials. Properly installed, copper shingles last forever. The shingles have a castellated lip—Jumbo-pid—that locks shingle over each other, creating a solid roofing system that efficiently sheds water. Shingles cost more than 100 square feet (a "square") as much as paneling, but are less expensive to install, as metal rovers readily recycle the same. "The shingles don't require the specialized equipment and highly skilled metal worker that installing paneling does," says Schatzke. "You a carpenter, the installation technique is familiar." The shingle



New copper shingles, above, make a fresh roof of this Old Home's original Waltham, Massachusetts, look gilded. But they're not just for show. The most durable roofing material, copper doesn't rust, rot or buckle.

PHOTOGRAPHS BY PEGGY BLASER



actually protects the surface from further weathering."

Good deal too. While the shingles on the Waltham house don't cost as much as gold, they are significantly expensive. Tim says an average of \$6 per square foot since 1982.

However, because copper shingles have little historical precedent on New England, Chris Ballou, an architectural metals designer, feels that completely covering the Walthams roof with them may not be the best choice. "I can see using them for architectural banding or the ridge of a house to cap off another material or for a small roof, a cupola, a veranda, something like that. The copper can easily bring a level of detail, richness and elegance to a house."

Silva agrees, which is why he chose copper shingles for the porch but will limit the old-style cap on the main roof. "These shingles would be obviously exposed to the rest of the winter roof lot, in an acme, they'd look it and really change," he says. In this situation, they'll also have a shorter life cycle. In winter past, cascading clouds of ice melted the shingles' original slate roof to shreds. Similarly battered, the copper shingles may start to wear.

The blinding effect of a new copper-shingled roof begins to dim just a few days after installation. But the roof may need from five to 30 years on the State of Liberty grounds, depending on variables including temperature, including, sun exposure of pitch, rainfall, sea salt and pollutants such as atmospheric sulfates. Schatzke emphasizes that the patina is simply a layer of copper oxide, and the color transformation doesn't mean the copper is failing. "The green rust is all compatible to rust, which goes into the heart of the metal." Well, copper, the patina

\$70. By comparison, a standard asphalt shingle roof costs in at about \$150 per thousand square.

Tim takes the long view. "You're looking at a sensible chunk of money, but this is basically an indestructible product. It's going to look great for a long time." ■





Amid many Monte Carlo diets, a solid one

10

745

While the Monte Carlo interior is comfortable and refined, its 200-Hz

— We pick plenty of straws.
— You're going to inherit some of it.
— Monte Carlo. The side you know
the world is up to you.

MONTE CARLO Z34
Genuine Chevrolet 

Trematolepis *Brill TM* & *Hwang*, 2004 from The Chusan Islands, Matsu Goto and Tia

Was it a *childhood dream?*



or was it the miles?

Of course, nobody worships miles like the do heroes. But when you use your Citibank AAdvantage® card, you'll earn one AAdvantage mile on American Airlines® for every dollar you spend.* And over 14 million



locations gladly accept the Citibank Advantage card. So you'll have plenty of opportunity to earn miles when you tip your cap to the old greats.

Never tire another mile

LETTER

From This Old House

TO THE RESCUE

M

out of an love the chaos of an old house, but we find ourselves drawn to them. Virtually every *This Old House* project—whether our current one, a Cleared Seaview cottage in Key West, Florida—has sprung from that need. But not only are kitchens and baths the most remodeled rooms in a house, they're also the roughest to do, not to mention the costliest. Consider the mind-boggling array of kitchen choices. Rustic-contemporary style ranges or sleek Euro ones. Electric self-cleaning convection ovens, microwaves or built-in grilling ovens. Built-in sinks, warming drawers and modular deep fryers, steamers and griddles. Marvelous built-in refrigerators or modular units with separate freezers, refrigerators and chiller compartments. Stainless-steel or porcelain dishwashers. Trash compactors.

Reverse-sloped warm floors. Low-voltage lighting. Custom tops or granite, marble or concrete. The bath is only slightly less daunting, with both American and European manufacturers offering a wide variety of fixtures, fixtures, showers and lighting. Sound intimidating? It is. And we haven't even begun to talk about the really tough pure-deals. It's enough to make a lot of readers and viewers with the T.O.H. team would immediately appear on their doorsteps and enclose all the dimensions for kitchens and baths already rated.

With grassed. This month, we're launching *House Calls With Steve*, highlighting a reader's project in each issue. Just send photos of your problem kitchen or bath or the magazine, along with a brief description and budget breakdown. We're going to tackle large and small renovations with both kitchen and master bathers, so don't be shy if you don't have enough cash to spend. If we choose your kitchen or bath, I'll drop in on you personally, anywhere in the country. Along with one or two local experts, we'll discuss the pros and cons, decide on a look and the appliances and fixtures that will help you achieve it, all in a quicker time than your budget. For starters, you might pick up a few tips from the first *House Calls With Steve* (page 33), in which I put the Rhode Island School of Design's experimental touches to the beatification test. We hope KISS's innovative appliances, work surfaces and storage units inspire you to send us in scurrying. Good luck, and we'll see you next time—at your old house. —Steve Thomas

Send details on your project to: *House Calls With Steve*, *This Old House* magazine, 1889 Avenue of the Americas, 25th Floor, New York, NY 10019.

PHOTOGRAPH BY PASCAL BLAIS/CON



Handing out
an ROI on
your kitchen
or bath? It'll
be here to
tell you.

Makes you wanna go outside and play.



And we've got just what you need to get started. Over 10,000 of the toughest, most powerful lawn and garden tools you can find. All the best brands at the guaranteed low price. Everything you need to turn your yard into a playground. So stop by The Home Depot today and let the games begin.

ECHO

TEKA

RYOBI

Sears

Homelite

© BUCHER BECKER

Poulan

HONDA

INTEK



© 1999 The Home Depot

watertown in a la e

A QUEEN ANNE RISEN IN ALL HER MAJESTY



When the wife of real-estate developer Andrew Gilmore, the Watertown house returns to a Watertown palette. When Christopher and Steven Dening, inspired by the Arts & Crafts movement, gutted their 1895 Queen Anne and added a sunroom, they added a new roofline, a new porch, and a new entrance.

This was supposed to be the easy one. Lost Man, when he The GM House crew picked, measured, cut, hewed, chiseled and otherwise assessed the 1998 addition project here in Watertown, Massachusetts, the guys were impressed. The 110-year-old Queen Anne sat solidly atop its slab, so it seemed to be a welcome "rest" after last year's refurbishment, providing respite of a decaying 270-year-old old house and barn on Melrose, Massachusetts. As T.O.H. owner carpenter Scott Abrahams puts it, "When you've got a good base to start with, progress tends to go well."

Now, with the final fitting of show-case plaster paneling over a corner and the last strip of fabric installed around around the windows, it seems even the all-knowing Norma girl is smiling. This renovation is likely to prove the most expensive in T.O.H. history—but step back for the larger song, and—surprise—Norma's prediction was dead on. If a project judged by its outcome, the overhauled 5,000-square-foot house not only won't sell, it won't appreciate.

The cost stretched skyward largely because home owners Christine Niles and Steven Dening, inspired by the house's potential and the skills of T.O.H. contractor Tim Sibley and his team, decided not to cut a single corner. Day in day out—often at expense to satisfy quirks such as uneven drawings and an impeccable backlog—the home owners organized their original, fully modern goals, creating a true classic house.

"The original idea was to add a new master bedroom, new bathrooms, a new kitchen and basically leave the rest untouched," says T.O.H. home owner Thomas. "That's not what happened, and that's why the house is so fabulous."

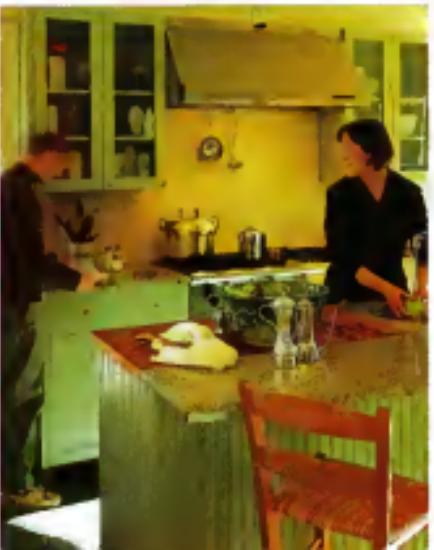
"My thought was 'They just have room, carry one out first,'" says Niles. "I said 'Let's do this in.' This is our forever house, and we wanted it to be right. Now, when I drive up to it, my heart skips a beat."

The exterior extension is a perfect example of doing it right. When pointing contractor Steve Kieran first contemplated the vast task before him, the point was not only a possibly hideous yellow but also lipping off the eavesbands in unk-leafed pine. "Surgery would have been only a bandage fit. The point was no far gone—removing the siding was the only feasible alternative," Kieran says.

Tim and his crew ripped off every scrap of siding and replaced it with new cedar shingles and shingles, many of them prefinished and tucked up by Niles and Deney Blue, says executive producer Ross Morsh, the facade is the "hero of the scene."

"When you go past, you think, 'What is

CHRISTINE NILES PHOTOGRAPHS BY FAYCAL BENABDOUN



TOP: The newly board-sheathed exterior reveals a reconstituted gable end in the kitchen. LEFT: Home owners Christine Niles and Steven Dening put the finishing touches to an older, 1895 Queen Anne. RIGHT: A look inside the kitchen, where a built-in oven and double-sink green cabinetry, accented with granite counters and stainless steel appliances, make for a bright, airy space.

108



around the main island in the kitchen, the original quarry-faced white oak floor goes down. It has a subtle, honed surface, never polished, which emphasizes the natural character of wood, its grain and texture. Although it took a year to bring it down from the natural to a subtle sheen, the result is one of the most organic, low-maintenance floors.

beautiful old house," Tim adds. "Usually every surface is new, but that floor doesn't require it looks aged and worn, and that's the ultimate in resonance."

Scrolling to the background, Moroni notes that Tom's crew rebuilt major portions of all three porches but says she truly believes that performed one heroic mistake. "The back drainage system was awful. It was a potassium reservoir for plants. Wilows and weeds were literally all that would grow." With a subsurface network of perforated plastic tubing and dry wells, T.D.H. landscape contractor Greg Cook reequipped the backyard woodland. Such work may seem decidedly amateur, which is why some general contractors shun it, Moroni says. "But it was crucial. To grow a decent lawn here, you had to do it."

Cutting around in the front and slogging through the snow, Moroni waves a hand at the project's single biggest challenge, referencing the massive six-story staircase from the back of the house to its rear and ripping up two superfluous stairways on the process. "We'll always remember this project as the one where we removed the staircase," he says with a sigh.

Apart from cosmetic work, the front portion didn't change that day since 1910 rear addition was radically altered—and successfully improved—by a kitchen flooded by a sunroom area and a reinvigorated backdoor's porches. Originally, the kitchen was dim and forbidding, enveloped, as on the house's dark south side. Now, the room stretches 27 feet across the back, or east, side of the house, where light floods in each morning. No fewer than 18 recessed lights bathe the space in a subtle, variable glow. "It's an inversion zone," Nolan says.

He pushes the curtain out the house's West-facing windows, revealing the property's most controversial: entire roofline covered in shingle cove—the star result. On one

episode of the television show, Steve, Norm and Tim made no secret of their desire for the \$3,000 overhauled window that Nolan wanted to install. In the owner's view, any light perceived would be overwhelmed by the storm's rain long before reaching the ground floor. And there was another because the 3-by-4-to-four-eighth lead in the roof deck spans on the complete roofline, just above where a low ridge intersects a ridgetop plane. "It was a little tricky," says Tom in a characteristic understatement. Before solving through-and-through to make room for the skylight, he had engineered lumber beams spanning from one interior bearing wall to the other, to prop up the ridge beam on one end. "Otherwise, that ridge would just be hanging out there, wincing in the breeze," he says. The result justified the effort: The sky-light capably illuminates the heart of the second- and third-floor, which was Nolan's primary aim. "The skylight works. We're hoping to sell it in my revenge," he says with a good-natured grin. "I think the guys were really hard." Tom nods in agreement and says, "We played with Gresham a little bit. But we did an experiment where

Where home owners Clinton
Hulen and Susan Gresham decided they wanted to replace the Waterford Inn's historic three-space-walling staircase with a single central one, this Old-Meister interpretation, with three twisted unique stairs. We would move the grandest set of stairs—12 massive steps of quarter-sawn oak with an Art Deco-style, polished pattern of cracked sheen—from the back of the house to its core.

"Whenever I visit this staircase book, people tell me 'oh, that's nice.' It was all hand-tight to these steps. That staircase represents a lot of sweat. The old-growth lumber is still strong, and it's so dry that it's an excellent article. In all our jobs, we're always looking to reuse anything we can."

Such economy saves trees and beautifies a house, but the major advantage in this case was financial. Moving the otherwise took about as much time as building and installing a new custom-



Danny and Jim's big blue rear dining room contains the storage area, which contains the old anchor, located where the old dry storage area used to stand—conveniently between the new kitchen area and dining room.



For pure luxury (1), it's difficult to beat the master bath's 8-foot-wide marble shower. "Genuinely, you can say 'Who needs a \$25,000 shower enclosure?'" says Moroni. "But you look in there, you just have along the real marble, and suddenly it seems worth it."



WAY THAT'S HEAVEN



With its first flight up, the next job is the staircase: upgrading one of the old loadings to fit the new location. Once the new stairs are complete, what had served as the main entrance will be the rear of this pastel-and-white bungalow.

added one that cost \$14,000 in

\$10,000 in materials and labor.

F.O.H. master carpenter Steve Nelson has the fact that the original

that interviewing four stringers

(big 10 beams) served to "keep up with patterns," undergirding the stairs spaced just 12 inches on center. "Today, you'd hardly ever just three," he says, and they'd be spaced at least 30 inches on center, which makes for a heavier, rounder stair. He also likes the jumbo capsule, The ebony capsule. The ebony and teakwood panel with a pressure-treated and treated joist, so "even if the foundation does move

relocating the main staircase won't likely be the new floor plan, which turns a labyrinth of tiny rooms into a light, open, easily navigable ensemble of large spaces; in doing so, it cuts the cost of the house. "Originally the house presented you with an expensive double story," says The Old House producer Bruce Livingston. "Now, with this beautiful staircase just inside the front door and a hall that runs from the front to the back door, you get the most of the house the moment you step inside."

On big 10 beams served to "keep up with patterns," undergirding the stairs spaced just 12 inches on center. "Today, you'd hardly ever just three," he says, and they'd be spaced at least 30 inches on center, which makes for a heavier, rounder stair. He also likes the jumbo capsule, The ebony capsule. The ebony and teakwood panel with a pressure-treated and treated joist, so "even if the foundation does move

or shrink, they stay intact together."

Extending the stairs from their original spot proved surprisingly easy. Tom's first step was to disassemble what many homeowners would likely ultimate choose. With cranking lugs and a ratchet, he carefully lowered each pair's location. (The balusters, for instance, were located "at" through "28-7." "It's tedious but it helps provide a guiding principle," he says.)

During the actual

"Hammering," Tom says. "The secret is thinking of how it was built. Then you take it apart to reverse." Whipping a recognizable nail, he slipped its metal-clad shank between the horizontal joist, between the end joist and a stud, anywhere that he could never notice—the rest of time he paid attention that the Madison board fit made. Finally, he sliced through the big nail holding the staircase to the floor joist above and below, said to be the last nailings.

With the new post, rail and balusters installed, the new staircase spans the bulk of the house—especially with a staircase peering through the roof skylight, making the hexagonal oak planks. "Believe, these residential stairs were hidden in the bulk of the house," says F.O.H. carpenter Steve Thomas. "Now they're celebrated, as they should be."



we carried up the daylight, and a made a huge difference. Putting it in was the right thing, to do."

In typical T.O.H. fashion, top-notch structural and systems upgrades mitigated the visible improvements. Descending into the fieldstone-walled cellar, Tom points at the central access, where he and Nelson have cut and replaced 21 feet of tennis-sighted soil. To stop water from leaking inside the basement, Tom had a trench backfilled around the inside perimeter and a French drain installed and connected to a new pump tank. From there, water finds no dry well, eventually percolating into a perforated concrete barrel, 6 feet wide by 4 feet deep, sunk in a bed of gravel.

T.O.H. plumbing and heating contractor Richard Trebilcot and his crew removed the two over-1920 gas furnaces and the piping that wastes energy through the house. Radiant and massive plaster has Colbrelli-tinned copper supply and return drapery for water, plus a complex heating

system. Two-inch-diameter "microduct" forced-air heat runs the second and third floors, while radiant-floor tubing keeps the kitchen's sunroom floor a welcoming 82 degrees Fahrenheit year-round. "This will be a heaven here, year round," Richard says.

The gas boiler that powers everything is, Richard says, "tiny" for the house. Originally, the house had a tank of about 400,000 BTUs for both heat and hot water. This was endlessly overland and inefficient. Most of the time, that system will run at just 120,000 BTUs. I'm confident that the gas bill will be in the bill!" He adds that the heating, cooling and water systems are all "totally silent. That's the mark of good work."

Allie Gollum, the electrician, upgraded the service from 100 to 300amps and added 10 miles of new wire through the building. Nelson originally wanted the breaker box in an upstairs bathroom, Gollum says, "so he could get at it easily if a breaker tripped. I told him when I tell all

my customers, 'If, after the way I have wired this place, you ever trip a circuit breaker, call me—I will personally come to your house and flip the switch for you.'

"I'll take you up on that," says Nelson.

"I mean it," Gollum says. "If you're paying \$30,000 for a new electrical system, why not make it right?"

Nelson's upgrade with Gollum—and every other contractor on the job—was largely along the lines of 12-hour days spent side by side with the Nelsons. Nelson and Denney were on site almost every day, de-shingling walls, painting the porch, sweeping stoopboards and whipping supplies from the front in the third floor. "The home owners have been just marvelous," Tom says. "They really worked hard, and they were right on the same things decommissioned to make—which made our job a lot easier."

"We hired every sort of it," blades caps, and that's telling. While Nelson and Denney's contractors did save money, those sweat equity folks put face down out of pocket expense, which Nelson says at more than \$30,000—\$40,000 more than the original budget. Take away the \$870,000 purchase price, the house cost roughly \$1.2 million.

That's hardly small change. But for a seven-bedroom, three-and-a-half-bath, four-fireplace, dream kitchen, ready-for-the-next-100-years house 3 miles from Harvard Square—where comparable houses go for \$2 million—it's not bad. ■

"The house looks uplifted not rebuilt, and that's the ultimate in renovation."



The Accord's exterior shows off the master touch on the interior frame. One of the house's most distinctive features is the bathroom's earth wall, which is twice as tall as a standard drywall panel—3 feet. "We used three panels because the conventional can come through all day," saysage. In the spring, the four-foot wall will feature its green portions of trees, rocks. To create this unique effect, Van emmen has building skills and installed a dimensioned veneer lumber beam to capture the master masonry.



How to avoid breakdowns. Nervous or otherwise.

When you're on a long drive—an hour-long layover, the last thing you want is experiencing a breakdown. Especially if it's the kind caused by

an thoughtful, practical and reliable, reliable vehicle that can help make your commute, and life, a less stressful. (Just check if it's tireless on wheels.)

For your convenience, and ours, we've included thoughtful touches just about everywhere. The controls and



High levels of tact and mystery

But don't worry. That's something you won't have to think about when you're in the safe, comfortable confines of the 1999 Accord V-6 Sedan.

In the Accord, you'll find something that's not available in most other cars: peace of mind. You see, the Accord is

Step inside the Accord's spacious, luxurious cabin, and you'll notice its refining effects almost immediately.

Lean back into the wide, supportive driver's seat. Stretch out. There's an absence of legroom, hiproom and headroom. From the ergonomic

passenger seat to the rear and within rear seats. Specialty tinted windshield glass protects you and the interior from heat and UV rays. And, vibration- and sound-absorbing materials provide for a remarkably quiet and peaceful ride. On the LX-V-6 model shown here, the driver's seat adjusts eight different

ways electronically. Remote controls for the high-powered AM/FM stereo and CD player are mounted on the steering wheel. The seats are cradled

leaving all your worries in the dust. Due to the highway and the firm double wishbone and struts/rear-link suspension provides the responsive

Accord will return California's best as UltraLow Emissions Vehicle using the newest standards in the nation. Considering all the winning factors



in soft nappa leather. And, there's even a cup holder for your coffee.

Now, if all those amenities don't stir your spirit, the Accord V-6's hidden performance must certainly will. Just look at the acceleration and the powerful 180-horsepower VTi® 3.2™ engine launches the Accord, promptly

from 0 to 60 in just 7.1 seconds. Add to that handling and control too good to belittle maneuver through even the most nerve-racking traffic situations. What more, the Accord will even put your convenience at ease. You'll find peace of mind in knowing Honda is single-mindedly committed to protecting the environment. In fact, nearly 70% of all

the oil has to offer, perhaps the only time the Accord may want any undercurrent is when you have to let it out. After all, So, to experience the Accord's sonoluminescence, call 1-800-33-HONDA. Or, simply visit us at www.honda.com.

The Accord


**The saga of a family
that wanted all the
modern conveniences—
and character too**

A NEW OLD HOUSE

BY RICHARD CONNIFF
PHOTOGRAPHS BY GUY KLOPPENBURG



Its classic迎面木柱和柱子，以及坚固的木制栏杆，都是新房子所不具备的。新房子由坚固的木材、混凝土、聚丙烯塑料板、聚苯乙烯泡沫塑料、聚氯乙烯塑料板和聚丙烯塑料板组成。

I was the last house of the last day we lived in our old house—shop captain's house, and we were about to shut the door behind us after 15 years of gaining, trapping, salvaging, mending, and preserving. This house, it must when we moved in, was new perfect. It had history (built in 1925). It had character (we'd found abandoned love letters, from an Indian customer, in a squirrel's nest in the attic). It even had closets—by the time we were done, I'd given the new owners closet instructions on the care and feeding of our letters, plus a small oil deodorizer. And my wife, Karen, and I and our three children—James, 14, Ben, 12, and Grace, 6, moved to the security of an old house—for suddenly homeless.

In a nearby town, we had a place of local visibility for conversation and, just around the corner, we had a house rented for the next few months. It had been my brother's idea to sell him old house first—and not when our own money was actually spent—before undertaking something new. More our life as a family seemed to hang in the balance.

Just then, with perfect timing, our audience, Scott Samuels, showed up and laid out the plans for our new house. All five of us kids agreed that an empty room in our old house had begun to work through the sleepers. Samuels' design had all the charming elements of an 1800s Shingle Style beach house—mostly aaked roofs, sunrooming galleries, a tower with a chimney peak, an open-pine interior and a long wrap-around porch.

Our building site was a wooded lot on the Connecticut shoreline, looking across a salt marsh to Long Island Sound. The site was to build a house that fit in if it belonged there; a house that had as much character as the one we were leaving behind. We wanted an old house—but without the asbestos, the lead paint, the dark, moldy smells emanating from certain corners. Maybe it was a contradiction in terms. We wanted all the modern conveniences—and character too. At least as paper, Samuels' design gave us hope in the blakdest moments of our departure. So we said good-bye to our old house, moved into our school-year winter and hunkered down for four months of renovation study.

One thing that the new house was shaped largely by is part of the old house we'd released in affectionately as the "old

room." When we bought the old place in 1982, it was a fine Federal beauty gone badly to seed. The former tenants seemed to have visted their frustrations by locking down doors, applying bolt pads (removable) to windows and intermittently sewing rows on fire. But nothing came close to the species destruction of the oak floor in the living room.

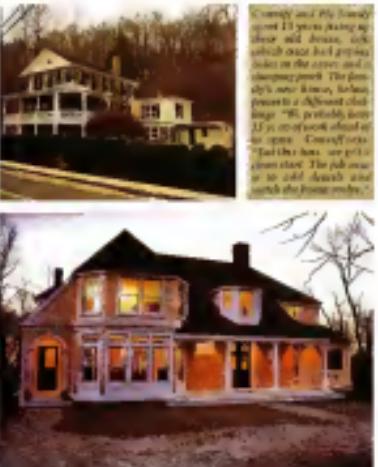
The house was built onto the side of a hill, and the oak room was largely below grade. It was a series of a massive room, back-to-back blocking the window and major or steel pipes crossing at eye level. The wood floor stood on fungal, rotten, rotted joists, which would snap under some piled-on box overalls. The soiled dust we bought the house, the wet dirt in 100 mm rain, and we could hear little waterfalls gushing through the room well in books.

We tried to block out the memory of old-home repair that

Karen still reminds me of our weekend I spent using a shingle hammer to smash a pair of old heating systems while our son, Jason, who was then two months old, soiled through all six infectious episodes. The house gave me recurring nightmares in which I opened the door from not only rooms only on discovery another and then another, with rats scurrying in the walls.

But memory lingers on the finished product and, by the time we moved out, the oak room had become one of the prettiest in the house. The solution was simple though costly: Rip out everything, and build a new room inside the same walls but with nuclear details invisible to the person. In place of the old ten floors, Karen and I dug French drains around the room, then put down gravel, a plastic vapor barrier, concrete, 2x8 sleepers, insulation, a plywood subfloor and finally 16-inch-wide pine boards refashioned from the stic. Encapsulate through the pine and then do the perimeter though took more. Why not skip the sticky phase and just put the pinned details on top of a solid, modern foundation? Why not, in short, build a new old house?

The idea took root, I should say, in my wife's head. To me, the great satisfaction of living in an old house was knowing that, at some point, I had passed over such avoid post-and-beam building, treated its illnesses and made it self again. I doubted that anything in a new house could ever give me the same satis-



“Old” and “New” house. The original 1800s house, which once had a porch, was torn down to make way for a new addition. The new addition is a copy of the old, but with modern conveniences like central air conditioning and a fireplace. The new addition is a copy of the old, but with modern conveniences like central air conditioning and a fireplace.

farmer. But I'd already lost this argument many years before, somewhere around that chipping-saw weekend.

As the new house started to go up, we began to furnish our pent-study. Karen's mother had salvaged a stained-glass transom window and off the close location when her great-grandparents' house was demolished in the 1960s, and this移居者 had been moldering in our attic. These colors were mostly faded, 1930s, perfect for the late-19th-century feel of the new place. One day, my daughter, Cleo, found me in the workshop, was silent, then took out blade cradles from the long boxes. She asked if I could help, so I fitted her up with a face mask and safety glasses, and together we began to expose the elaborately molded leaf-and-vine patterns, rampant dragons and leaping lions. Wielding her sash a salvaged piece of her great-great grandfather's fence, I began to think it might be possible to invent and new house with history, character, and a sense of personal connection.

"We spent all our spare time at the building site, doing the stuff for which sensible people pay a general contractor. The first thing that made me was how much better builders do things these days, though it may be less for an old house a hundred years ago than for Engaged houses, though their wood-chest beams have a lever, a leverless, a leverless, of their own. We found that we could take an old stained glass window, break one bar, but no longer, break one up again a good northeast sunroom, the pieces would slide inside the frame of a modern, low-E window—the heat of birds worlds."

Our building carpenter, Ron Gerns, was a careful, conscientious worker, and his language of cryptic, off-the-beaten-path terms had seemed to give the house the character of a living thing. The language of outsiders was too different. At our old house, on the early days, people passing by used to check it; it was encouraging to share, "I don't envy you!" The interior ones did not only what safety and insurance range. (At the new house began to take shape, what they said was, "Do you know how many people get divorced doing this?" Faced with eighties, I now walk up every night and make long lists of things that more going to cost us \$8,000 each.)

We quickly discovered that general contractors do not eat a their money mostly on material circumstances. I spent one whole day, for instance, comparing well-pump bids and learning a host of differences (which I leave out, thank God, forgotten between 160 poly pipe and schedule-40 PVC). Being a general contractor requires a willingness to ask stupid questions (for which, as a pro-

builder, I have a lifetime of experience). Another requirement is a knack for getting people to do a job right—even when they don't know what you're talking about. My unrealistic request only managed to avoid increasing the space between some angled wall studs. He did the job right after the third time I pointed my party knife through his nation's wallet to remind the vast uninvited space "behind."

Living general contractors also meant that I spent days on the phone, seeking bids, negotiating prices and checking final bills (though not so hot as having companies bill us per hour on a long list of expenses, but not such amazingly stiff day rates as \$304.) As at old houses, I couldn't have survived without a photo scanner. At the new house, my most valuable tool turned out to be a budget. We went through it keep costs over \$100,000 to around \$3100 a square foot, so the need for a budget might seem obvious. But we only sat down to the task because our marriage lender insisted we do it. Until then, we were operating with an old-world mentality. What will there be a little money in the bank before starting the next big project, and every time add up the total cost, because it's just too hard to think about.

Building a new house was both alien territory for me. But just as construction was about to begin, a friend showed me how to use a checklist. After 10 more sets of instructions, I was able to make a customized work sheet for each section of the job (Roof, plumbing, exterior doors and so on) and record every payment. The work sheet automatically totaled these payments. It also automatically sent the totals to a master sheet, a single page with two columns showing how much Karen and I had budgeted and another showing where we were actually spending—with a bold red line on both. I should emphasize that this kind of meticulous organization is utterly vital to us. But it gave us at least the chance of control to have all that information at hand. The money was still flying out, but it was flying out systematically.

Amid the welter of decisions, it was always the little things that took us. "Who's the contractor's life?" I asked Karen one day, not knowing who some police, possibly such as, "Could you please look ... ?" She began to search for the file, sifting and rummaging papers.

"Don't sigh at me. I didn't take it," I snapped.
"I certainly didn't lose it," she said.
We began to shout at her to call such other names, which had to



Top: Courtesy from the Karen, Jamie, Cleo, and Richard. "The kids helped design their own room." (top) Courtesy "Please put the rest of their estate there, who place doesn't you know... And Cleo whose old bedroom was as small that the new owners decorated it a closet, just the bigger room of us all."



Dave Lippman (left) Karen (center) and Richard (right) inherited from her great-grandparents' home when he gave her house with a room of his own. (bottom) The County English Cleo, now has a room added to the past and present of her from the hardware on since designs and friends could help and vice versa.



NOBODY BUILDS A BETTER FULL-SIZE TRUCK. NOBODY.

FORD F-SERIES IS AMERICA'S BEST-BUILT TRUCK.* IT'S
BEEN THE BEST-SELLING TRUCK FOR OVER TWO DECADES
AND, WITH OVER 50 YEARS OF PROVEN TOUGHNESS
BEHIND IT, YOU'RE NOT GOING TO FIND A BETTER TRUCK
ANYWHERE. NOT EVEN IF YOU LOOK UNDER A ROCK.



*Based on a survey of U.S. and Canadian registered vehicles at 12 months ownership courtesy of Ford Motor Co., Inc. ©2007 Ford Motor Company. Not all models available.



TREE FRAMER

Jack Sobes builds storybook houses that celebrate nature's unpredictable curves



The house is full of trees. With half the frame erected, unshaped tree-pieces already abound. In what will be the living room, the crooked trunk of a great pine holds a 400-pound pine beam slotted with its two 5-inch-thick arms, like Atlas supporting the universe. On the second floor, four pairs of gracefully engined timbers—two of pine, one ash, one black cherry—each 20 feet end cleap at the ridge, resembling



an addition added in '27 to a house in West Dennis, Massachusetts, featuring "timber action" between two rooms. The unusual members (from L to R, top) are sandalwood, red maple, white oak and American beech. "Loving with them is a spiritual," says house owner Kathleen Wilson.

the skin of an emerald schooner; in the living room hall, bathroom and laundry, posts of Eastern big hornbeam bulge with bark, miming boughs so expertly that twisting great

On a sparkling morning in the Berkshire foothills of western Massachusetts, 120 volunteers have shown up to help Jack Sobes raise or enter another house of his own design, the framer making fast with twisted, bent, cracked, knotted and otherwise incorporating tree cracks and blemishes. Some 20 men and 5 women—wielding a maul, a hand saw, a hand plane, a well-drilled auger, a mortise chisel and an antique-top saw—a master—stands up the last of 2,000 partial assemblies of posts and beams that will support the main part of the house. Each 24-foot-long structural tie, as it drops with a thud into position clamped into the oven, anticipates a new surprise awaiting itself against a weathered world.

Sobes is a big, robust guy, 43 years old, has hair that perpetually wins and wins—burned by a life lived outdoors. After pressing a level against a pine post and grommeting it as he pushes the timber plumb, he tips back his leather cap to stave off and rays a broad across the tight white grain of a forked oak branch. The oak will serve for finished walls and posts, trees as oak, chestnut, birch or pine. In most of the 50 buildings Sobes has designed and raised since 1982, the tree forms become as ornate as obelisks as hands expertly score them through the years. "People are stirred by nature, for nature, for something real," Sobes says. "That's why they come to me."

He calls his style Organic Medieval Revival. "I make storybook houses. You actually had chest long in children's books. They will show that a portion of the cabin family living in a warmer civilization everywhere and say, 'So cool!'"

Sobes happily admits incorporating various materials into nearly all of his structures. Sometimes he harvests down trees from his own 73-acre wood lot near the western Massachusetts town of Windsor. Sometimes—at the cost of the lot—he takes them from the land on which the house is built. Sobes loves to play with his houses with cracks, the old English term for corrugated shingled timber that falls both well and bad. He makes room dividers out of whole trees. He makes cellar stairs out of beams with sweeping curves. He makes bathtubs out of peeled sticks. In his own house, even the radio paper holder is a crooked pine branch perfectly angled to support a roll of *Charlie*.

Out of reverence for these natural forms, Sobes prepares steps for assembly always initially with hand tools. The cans and elbow required for today's raising is typical of all of Sobes's projects. After an ax or maul hammers the logs out of the woods, Sobes, his son, David, his son-in-law, and stepson, Neil Golden, spent seven months how-

ing, welding, bolting and placing the 330 pieces of the frame, using male glorified fire marks and unique roof-decker dovetails, spokeshaves, hammers, hammers, boring mallets, hand planes, clamping tools known as frogs and huge wooden chocks called chairs. It's just like noble nature," Sabon laughs. "Not at all. We'll never ally argue over who gets to work on a certain part."

Sabon, then, leads a crowd. While his colleagues march under durable canopies, nearly all of the modern building profession sees as a high-speed, ever-accelerating enterprise. The longer he lugs verbiage into the nighgloves over the frame, carpenters, clamping boards for even air, splitting wood, cut them in floors, walls and ceilings, employing dozens of tools to nail, screw and glue them into alignment, perfect harmony. Lastly, the hands-to-everywhere'ers have surrounded each other the space in the forest seal the spruce or the willow bairn an attachment to each other. Now trees are chopped, antisected and presented in idealized icon, laminated eastern lumber and central strand board, though as a tree strong. All that excess of the original organic energy is the fiber, and in the case of prefabricated, now even that.

"But it's all wrong," says Sabon. During a break, resting his big muscular hands of broad and massive calloused, he surveys the forest with obvious pleasure. Already, the crowd of volunteer house raisers is disbursed. Kids peek through the cracks. These guys really rob the woods, he says.



Local Grouse Elian Graham, who will live here with her husband, Tom, and their four kids, is almost breathless with delight. "You can't think anyone who visits my house will ever be able to forget it," she says. "It's just amazing."

"It houses, or architecture, everywhere is that age, everything is narrow, flat, straight, perfect, coated with thick varnish," Sabon says. "Most houses are built like hospitals or steel-mill rooms. I honestly think that's why people move away there or four years. They have no connection to their home. It's just another angular, antiseptic box. It isn't enhancing these lives."

"We go into the woods with the chains, pull the trees and cut them down. Then get to see the over-growth and soaring. They're not in wedlock, so those cleared members with bald ends, they're just natural, riveted by the whole experience. The house comes in contact with a concert, a beauty that they're buying as much as they're helping the house itself."

For the truly unfeeling experience, Sabon says, is living in密度, without contact with the wild tree forms. "There's no don't

haven't edges and perfectly machined surfaces. Our houses should be like we are. We used to move toward graceful, curving members with subtly mortised joints. Your pupils look around them, the look of a wave, a mountain, a meadow, a tree branch. Who doesn't feel better walking on a forest path instead of down a corridor in an office building?"

Kathleen Williams, whose house received a Sabon-designed saddle roof in 1993, is more succinct. "It looks like the trees are still alive," she says.

Back to work. Raisers, drivers the ground crew to left a 300-foot paved 30-foot long top step into position for installation.



Working a 30-foot-long maple scaffold, Sabon drives house a hand-nailed saddle. He often commences deliberately to teach, as that passageway on the right shows.

them with their crane claw shell and rip them apart, and now I'm putting them back up by hand," he says with a wry smile. "Back then, I thought what he did was cool. It was the '80s, and everyone knew these places were urban. Brutal '90s."

Always a comparative builder, at age 10 Sabon spent weeks in running the dimension of Massachusetts, Boston and Albany out of plane blades, passing over interstates and roads to make sure every ditch was perfect. From age 13 on, Sabon dreamed of design gleaming skyscrapers or wide highway spans, his imagination fired by the who's-famous issues of Popular Science magazine.

But midway through his architectural training at the Rhode Island School of Design, he grew disenchanted with the pretentious additiof postmodern design. "I realized that there was nothing about it. It was all for effect. Students would follow like sheep. There was a whole crowd—the black-clad, pony shirts, wire-rim glasses people—and they would copy whatever strange idea was going." Our professors, he recalls, measured a particularly tortured landscape treatment called a bosque, which involved planting trees in a grid and shearing their tops and bottoms in form perfect planes "like a living, rolling," says Sabon. "When for students were assigned to design up a landscape for a house on Martha's Vineyard, he adds, "Everyone's plan has been standard a bosque. It was rare. The norm was laid out during the Picturesque movement, so an artificial landscape like that was completely inappropriate."

Intoxicated by the rustic revival of post-and-beam architecture, Sabon took a summer job in 1976 with timber-frame-haus specialist Rudiell & Sonnen, dismantling old barns and then reassembling them into houses "mainly for wealthy aristo types," he says. "I had originally thought those old barns were too precious, but the more I learned about them, the more I saw that these guys knew what they did well." One example, Sabon said, is the saddle—a lapped panel used to splice two or more short beams into one long one—was never placed directly over a post, but rather over a post's diagonal brace. "It doesn't seem sensible, but if you do the leading sequences, that turns out to be a premium place for a

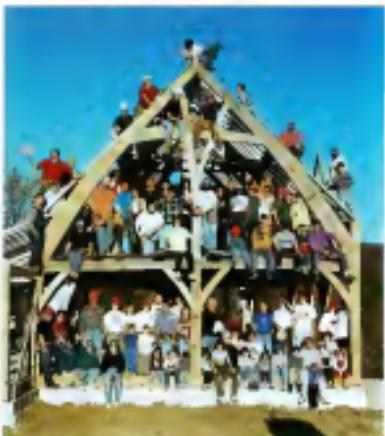
secret joint. Most modern timber framers put it over the post, but that's absolutely wrong. I heard dozens of things like that."

Afterwards, Sabon found himself sitting with craftsmen from a bygone era. On his way as a contractor in 1983, he decided to purchase a 12 by 15-foot medieval in Bradenton, Massachusetts, using only hand tools. "Everyone told me it was crazy, but my son just said it couldn't be as hard as we think it was. People had built structures this way for thousands of years, and they were it'super heroic." I built it, and I made money on the job. I learned to respect the old tools. A more frenzied note and, "Power tools are a real invention you just pour work," and I think that's exactly right."

In 1984, Sabon started a crack-laden cottage for his girlfriend, Susie, restoring the medieval pattern of forming both walls and roof with bone-cruciform-shaped numbers. As perhaps the ultimate antidote to consumerism, Susie married him. He went on to build six more crack structures. The Greshams' will be his eighth.

"I grew up like Clark," he says. "I've never truly had more fun than any other living human being."

At 8:37 p.m., Gresham strips the last pig onto a rafter's new web. His crewwide laud, merrily follows, cheering the assembly for the last night hours, suddenly dons baseball hats, rapidly spilling on ice bed in the center of the barn, parking something else that needs doing. "It's that off"



Joined by some of the 220 volunteers who helped raise her barn, Tim Gresham plays tether to the men that take up the frame by offering a pole dough to the peak. "We need more community activities in the suburbs," says Sabon. "The many Americans close to their garage or right just after their door."

Surprise. Scattered applesauce bubbles over among the corral. They've raised the frame of a five-bay barn, three-hundred 2,500-square-foot bays in one day, and the sun still hangs just above the horizon.

Sabon wanders through the ground floor. Many standard timber-framed are made from a single species of wood—sugi or Douglas fir, usually—but his follows the old pattern of mixing species to maximize their strengths and create visual variety. This house incorporates white pine, red spruce, Eastern hemlock, black birch, red maple, sugar maple, American beech, white ash, black cherry, American elm, Eastern hop hornbeam, white birch and yellow birch—an Eastern mixed wood forest in a barn. Timber framers also tend to just a few basic woods—only Sugi and Paha, for example—but Sabon employs a dozen or more, crafting the more delicate structures such as dormers with panels

The Classics Live On...

'57 Chevy
Beethoven
Kolbe & Kolbe



What makes a classic? Perhaps it's the ability to charm and inspire us over the years. Perhaps it's the small details, such as hand-carved and unique designs. Since 1894 this Victorian home has exemplified the meaning of quality and beauty. Generations of historic residences have painstakingly maintained and preserved such historic homes, majestic reminders of our past. And for over 50 years Kolbe & Kolbe has done this, providing wood windows and doors of the highest quality and historic authenticity. Our custom tailoring abilities, unlimited exterior color selection and the natural beauty of wood, has made Kolbe & Kolbe a valuable tool to restoration around the world.

For a free product catalog call 800-935-8171 or mail the order form below to
Kolbe & Kolbe Millwork Co., Inc.

1323 South Ellsworth Avenue, Wausau, Wisconsin 54401



Name _____
Address _____
City, State, Zip _____
Phone _____

Beautify Your Home with Wood Windows and Doors.



"People are starved for romance, for texture, for something real. That's why they come to us."

Sobon cliché a section in a pine beam for a house frame. More than a decade of chiseling, peeling and planing timber has transformed the wood in front of her eyes. "The changes are 3 feet deep now," he says.

As much as I try... "This house + old places were built," he says. "And it's hard to work..."

... Americans, he says, don't look nearly enough at the people who design and build their houses. "If you move out of your house, that house is a failure. People never get chances. They shouldn't move if people had the right houses, they would change owners before they changed houses. A good house will inspire you. It will encourage you to put down roots. You'll build a garden and a porch. Maybe you've met people who live in a house like that, and you've said, 'These people are go-getters, they're so energetic.' Well, look at what they've done here!"

Sobon looks through the framework into the trees. "Maybe they're as different from you," he says. "Maybe they just love the right houses." ■



To a Kubota TG owner, mowing the lawn is not a mere chore. It's a posture, a passion, an obsession. Perhaps that's because the new Kubota TG is more than a mere lawn mower. Built like a sports car, this highly advanced tractor

comes fully loaded with electronic track and power steering, Custom Ride Suspension and an 18-hp liquid-cooled gas or diesel engine. Which all adds up to the smooth, quiet, comfortable ride you've always dreamed of. For more details, and possibly a new tractor, call 1-888-4 Kubota, ext. 115.



Kubota
GLOBAL TRACTOR CORPORATION



Stacking stones... we started out plain 2x4s but by adding stones to create a carefully fitted base over the Stromm Mauer's poured-concrete foundation, before Delton Stromm sent in a compressor and Airless, they'll have selected, shaped and numbered in place at least 20 stones to each 10-foot-high wall section from a pile. When we're finished, the stones will be held in place by a dry-set concrete mix at night. It's an easy job, when you work with a tight group, obviously, and we can do it twice as fast.



FACED

When stonemason Delfino Ventura steps up to the concrete wall and lifts his right hand, he has no idea someone is watching, so what he does next is doubly absorbing. Eying the stones he's already put in place, he traces the thin flowing line of a mortar joint with his fingers, moving them back and forth on the wall swiftly, gracefully, rhythmically, swaying his body like a conductor in front of a silent orchestra. When he knows how the stone melody will continue, Ventura picks up a nearly 2-foot-long rock, lifts it into place, checks the fit and marks it with a bit of rubble. Then he lowers the 50-pound hunk back to the ground and begins chipping at the edges with a mason's hammer. By the end of the day, he'll have done all of this 100 times.

Ventura is laying up stones along the wall that forms the long, south-facing porch at *This Old House* magazine's Wilton, Connecticut, Dream House. When the job is done, most of the exposed foundation will gain a fieldstone veneer and project the illusion of a solid-stone pedestal.

Dressing a foundation with rocks gathered from fields and riverbeds gives bland concrete a lively expression

Retro Rock

Reinforced foundations often have bottom shelves and steps built with a stone veneer. They are laid out on their own. The ledge or a retaining border retains the stone and a way to support it (not a base or courses over the top course) to keep stones from moving in lateral soil. At the Dream House, a decorative ledge angle from bottom to top is built with rough-hewn stones. It's used to support the stones on fieldstone walls that rise no more than 10 feet. The finished walls will have cut over the top all the field-stone blocks, a common though time-honored technique. Once a house is built, don't practice or appreciate, the stone can be altered into 1-inch slabs if you like. vintage-style transitions to a modern design that can be covered with stonework. "When you look at this stone on its own, you can hardly tell it's 1911 or it looks like 1960," says Bill Plaza, a general manager at C&G Interiors, a Tuxedo, Connecticut, stone distributor. "Only the texture and color give it away." Whatever its thickness, the stones should be held to the wall with a minimum two (sober) pavers with interlocking panels about every four feet.





Chippers, Breakers, Brushes and Trowels

Masonry tools include heavy-duty rock breakers and planer tools with a chisel edge and a flat edge. A mason's hammer [D] comes in and chips a stone into its final shape. The mason uses a standard hand trowel [E] and a long-handled trowel [F] to finish off big pieces, sometimes with help from the masonry chisel [G]. Triangle trowels [H, I] don't matter so much and fill the gap between the stone and the concrete wall. The narrow pointing trowel [J] finishes the joints. A broad brush [L] washes away fine mortar during the jointing and smoothing.

supporting the rambling Shingle Style house. Venstra's work will count clear to watching the real thing: the rambling country foundations that inspired this look. "In the earliest Shingle Style houses, stone would have been the first choice when the designer was trying to suggest a rustic house growing out of the landscape," says Tom architectural historian Vincent Scully. Today, a stone foundation would be more expensive and difficult to build and potentially weaker than poured concrete. So laying up a brick-and-stone return—what Scully calls a "wallpapering of the foundation"—is a sensible compromise.

Laying feet away from the wall, stone piers of varying heights, which are larger and taller and have straight edges than those in the pile of stones, which is usually not far from round. Venstra and coworkers Paolo Radogna and Tony Martin will save the interior stones for the wall's perimeter and corners and cover the rest of the exterior with the others. Radogna has hand-cut and shaped some of each, seemingly at random, along the face of the wall. From this rocky masonry, Venstra creates new music. A night or two ago he laid a bottom course of large rectangular stones to suggest stable support for those that followed. He set them on a thick dry-set shelf of granite block built up from the bottom to support the stones' considerable weight, about 60 pounds a square foot. Then he began adding stones of various sizes and shapes, maintaining a generally horizontal line by laying them on their longer sides. To keep the free face, Venstra used a length of chain sawed in a guide, keeping it tightly stretched across the wall, about 6 inches from the concrete.

Now, every foot or two, Radogna brings a wall up into the concrete with a power nailing. The short aluminum spikes between piers and anchor stones to the wall. As Venstra shapes each stone and positions it into place, Radogna fills in the space behind it with



To lay a pier, a mason starts at a high point. Tony Martin drops stones at the ridge, checks the fit and removes any stones that won't fit.

because of their tendencies—some pliable and rough stones.

Not to mention the curved, high-spired lobes of the stones and their friends. As Venstra works a pier and Radogna fixes mad, Radogna looks up from shaping a stone and sees in all three of them spontaneously breaking song:

stone masons. You may prefer the dryer, more formal courses of stone, because of strength, dries quicker and doesn't take up as much of the joint and dries up the mason.

T

here's no single right way," says Dream House project architect Gary Brewer of the infinite variety of patterns and looks that can be achieved with veneer stone. Yet whatever the pattern and the shape of the rock—rounded, squared off or irregular—Brewer believes in following some basic rules as to how it should be arranged on a wall. "You want to avoid long vertical or horizontal joint lines by using a mix of sizes and placing them so they don't appear to

be formally coursed like brick," he says. "And with Shingle Style and other traditional designs, the rougher the stone the better. Masons tend to face the smoothest side of the



As the continuation of a 1906 Colonial Revival in Nassau County, architect Robert J.A. Brown designed masonry walls, left, to echo the original pattern on the right.

stone outward, but it's often appropriate and more rustic to use the jagged side. And you want a very narrow, deeply recessed joint profile that reveals more of the rock. The way it's laid is almost more important than the stone itself."

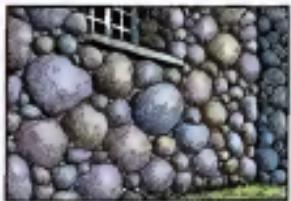
LEDEROCK



FIELDSTONE



RIVER ROCK



ROUGHLY SQUARED





The Crowning Glory

just as an exquisite frame glorifies a work of art, a roof can add great visual impact. And with Celotex® Premium Laminated Shakes the beauty is more than just visual. They are made to withstand damaging brute-force winds and wind-blown fiery embers. And they come with 25 years to lifetime warranties, plus they have earned the Good Housekeeping

Seal. All very comforting benefits indeed, but when you see the pronounced shadow effects created by the husky thickness seen only in a cedar shake roof...well, just look for a Celotex Roofing Contractor in the Yellow Pages. They are ready and waiting to show you shakes that are too beautiful to be called just shingles. They will give your home the Crowning Glory.



A CLASSIC LOOK SHANE
Good Housekeeping



America's Premium Laminated Shakes
1-877-4600 or visit us at our website www.celotex.com



FILLING IN THE BLANK AT WATERTOWN

After one horrific winter, Celotex shingle planters had freed, whereby leaving 100,000 sq. feet of damage done, but the floor. After the Old French fell paper on Watertown, Massachusetts, after falling into fruition. Despite a grants money being thrown and back, the local town fathers placed the street over a 100 ft. concrete plank (wood), as a T-3000 association, you were last Monday, a day ago to today. The front porch which once spans only half on plastic, originally water did the whole way across, and the builders recently decided not to spend money on stone it would never be seen. That meant the porches concrete was removed, and it cost up to \$200 million. Every dollar spent is it not regarding the 100,000 sq. feet of damage after the last major storm some granite blocks that matched the original.

Paul, Holloman had helped the city clean up by bringing a load of the old stones to a distributor who quickly identified it as Bedford Frost granite. Directly east-central and block pavers, it's found all around houses, from sand on houses to the majority of all top 5 main country, ultimate areas throughout in 100 ft. apart, just as the new ones. After 3 days of 10 ft. by 12 ft. per lot. The granite has to be as thick as the blocks it was replacing and all the stones to them, roughly 4, 5 and 12 inches to match the stones to the original porches. After removing the blocks or several blocks below grade, where it formed a step to support the granite, Holloman cut the stones to varying lengths. Then he shaped the exposed faces until a chevron pattern and a rounded-angled chisel, chipping away the edges to create the same convex profile as that of the old blocks.

When he started placing the stones, Holloman removed the irregular portion of the other stones and made the stones just as thicker than 100 ft. After laying up the lot of the 40 blocks, he rolled over each with a thin pointing trowel and interlocked brushed along the last bit of loose mortar. Then he stepped back and, with both sides perfectly aligned his day's work. "Looks like it's been there forever." —Drew Kornblith



Beauty is more than skin deep.

New from GE Silicones,
WeatherMate® Exterior Wood Cleaner and Protector
cleans and protects your investment.

Some wood protectors ask a lot. Lots of tools, time-consuming application, clean up that feels like torture. So you have to give up your whole weekend.

Well, now you have an alternative. The GE WeatherMate® Kit.

With WeatherMate™ you'll quickly clean and protect 500 square feet of deck. The spray bottles easily attach to a garden hose—so you can clean and protect your investment using GE silicone technology that penetrates the wood for long-lasting protection.



And because the product is made by GE, you can count on getting more—more performance, more coverage, more satisfaction.

So don't put the whole weekend aside to do your

deck. And add something new to your life. A little relaxation.



GE SILICONES

**GREAT
HOUSE**
Lasting American design and their influence on your home

CLASSICAL GRANDEUR

Melrose, a gracious Greek Revival in Natchez, Mississippi, embodies an appealing combination of elegance and practicality

If HOUSES HAVE TALES, THIS ONE IS OPEN, INVITING AND RICH—a glorified Greek reviving porch shading graciously lace curtains and warm, red-brick walls covered with painted initials. From a distance or the front lawn, the rear outbuildings appear to be attached, hounding an already grandious facade. The bucolic setting's like a dream. Anyone arriving would feel welcome—and impressed.

That's just what John T. McMillian intended. His house was built to display its owners' wealth and social standing. McMillen, a cotton planter, had moved to Ohio and sought his fortune in Natchez, Mississippi, epicenter of the cotton-growing antebellum South. He married well and, in 1847, hired architect builder Jacob Birrell to create a showplace atop a hilly 18-acre hill 6 miles east of town. McMillen, of course, named the house for Melrose Abbey, the setting of Sir Walter Scott's romance *The Lay of the Last Minstrel*. Construction took four years and, when Melrose was finished, people rode for miles to admire it. And as its reputation grew, in Birrell's 1852 entry, the house was called the "best cabin in the state of Mississippi."

Today, Melrose survives as a splendid example of a style that swept not only Natchez but also the nation. During the early 1800s, Greek Revival was essentially the American classical architecture. The pristine proportions, the formal symmetry taken from Greek temples, the columns, pilasters, porticos, pediments, cornices—all said and done Americans took seriously seriously, now consider it inferiorities of a noble tradition. By 1842, Greek Revival was widespread for the architect Alexander Jackson Davis insisted that it was best for vernacular American houses to "divide gables between a colonnade, a porch and a hall of justice." He might have added the houses of Natchez grandly, for when the style first spread appeal. "Classic architecture like this—is clean, bright, man and material—can mean anything you want it to mean," says Vicente Scully, an architectural historian at Yale. "To the South, or represented Greek democracy, which was olive-growing democracy."

BY JACK MCINTOCK
PHOTOGRAPHS BY MICHAEL GRIMM

The presence of Melrose leaves no otherwise neutral. The house's stately profile, like a student poised in a pose, "It's an amazement," says architect Michael Grimm, the museum specialist at Melrose. "The architecture is like the original owner—calm, quiet, graceful."



A pocket door framed with fluted Ionic pilasters leads from the drawing room to the parlor at left. The monogrammed furniture, created at least after 1800—

is original to the house.

no-kid people feel good in a barned world."

The full-height colonnaded porch is a classic pediment. "Gothic or its brother is well at spot in Maine," says "The overhanging porches stand on four, fluted columns, and so did the house, because there's no stone in Northeast," Jenkins says. Sparing no expense, the McMeens had a reason to lay fire, locally fired brick walls that are up to 2 feet thick. Down the ramped with horizontal stonework and surrounded by narrow ledges left of recessed panes—true rustic Greek Revival elements. Parts of the facade were sheathed, intended to resemble stone blocks and then stained and varnished like timber, "so black comes, one coat, with white in the coats," Jenkins says.

Cobblestone laid inside the moldings, columns, windows and other details from live local cypress, and cedar caulked from pressed shingles of the cypress to assemble the golden oak of England. The finish looks quite rustic—except that the metal hangers and settee heads are wood-grained resin. An iron medallion is set into the west end panel of the central entrance. "There's a myth that this is a long bottom to show the entrance was paid off," Jenkins says. "But there was never a mortgage on this house."

Steeply sloping the space inside is a deep ledge and a great hall beyond it. Upfront, these grand rooms have something like original English floor cloths, woven of long and short pruned or look like reeds or twigs. The four

cloths are believed to be the only ones in America still in their original location.

Paralleling these grand rooms on the right, down from top to base, in the dining room, parlor and library. Pocket doors separate them but, when the doors open, the rooms combine to form a huge, richly furnished salon. Much of the McMeens' furniture is still here, some made by Joseph Meeks of New York City and Charles White of Philadelphia. It is plain wooden stuff; the chair arms carved with elaborate motifs of leaves and acanthus leaves—wedgey looking leaves with oddly contorted bents, Jenkins says—coupled boldly with a fringe. "They're not really slabs and not really delicate," she says. "Just robust."

To the left of the ledge is the dining room and, hanging about the mahogany and cherry table, the house's oldest fixture: a punchbowl. It is a heavy ornate Imperial English a la Louisa from India or the West Indies, silver flat, covered mahogany paddle that sweeps back and forth above the table, swishing away from and covering powdered dinners, powdered for a slave banqueting on a stage. In every room, large windows admit the bright sun. Also in some rooms, a crack rings a bell outside or someone's shore.

When T.K. Wharton, a French architect, visited McMeekin in 1859, he described the grounds as "looking like all the world lie ring lab park." Near the house, the land was manicured, enclosed by an ornamental cypress fence and dotted gardens with trees. Gardiners had scalped the more chaotic land into romantic pastoral views in the English manner, with meadows, flocks, streams and grazing cattle, plus an American touch, the slave cemetery.

The McMeekins left Maine after the Civil War, having suffered financial reversals. "You wonder how a man who owned so much goes broke," says Fred Page, relating beside a white Dutch colonial Pagé, a Black American, came to McMeekin five decades ago, a manager death in a Louisiana farm. He has worked here ever since as boiler, driver, overseer and wine National Park Service ranger.

In the late 1800s, McMeekin was unoccupied except for two former slaves, Jane Johnson and Adon Sims, who lived in an outbuilding. But when a New York master couple, George and Ethel

Top: Gleaming mahogany, ironmongery and elegantly gilded ironwork enhance an antique library interior. In the dining room, large gilded chairs, including one painted in reddish-orange, are mounted on claw feet by slaves. This two-story, 1½-hourly at the base and 2 feet tall, features an eight-panelled ceiling. Classical Greek issues punctuate the paneled walls.



Kelly, took up residence in 1900, they decided to preserve the house in its original form and to use the original furnishings, by then more than half a century old and decidedly rural style. Their decision was remarkable for its time—and lucky for posterity. Most Northern home owners were fashion chasers and, in the 1930s, only nine of the great suburban villas carried any sign of their original decorations on, but the Kellys simply stripped the decor off of the furniture and shelves, even keeping the original drawing room drapes.

The couple did have to do more work on the house, though. They galvanized the iron fireplaces, deck to shed roofs. They painted over the fine-stipple racoon, which had descended well locally, then went to great expense to restore it. When cars became available around 1908, the Kellys bought one, built a driveway to the door holding one back and installed garage doors. "Then of course they had to have a gas pump, an air compressor, and a full-time mechanic who traveled everywhere with them to keep it running," Jenkins says.

Whenever the Kellys opened McMeekin to the public, Page led the tours. He had a prodigious knowledge of the house, the fixtures of the original kitchen, the identity of a lady in a blue daguerreotype. Page can give a crisp 15-minute speech on the economics of cotton planting and its relationship to European trade in the 1810s and 1820s, including the numbers of acres, holes, slaves, ships, miles and dollars in profits and taxes involved. He maintained the house, keeping the stove before working under his descendants' purpose (Ethel Kelly used to scrounge bats for antiseptics). And he served meals—always formally, elegantly, in multiple courses! Ethel Kelly, "lived a highly, aristocratic life."

When colonist John Calfee and his wife bought McMeekin in 1996, they kept Page on. The house was "surprisingly perfect," Calfee said later, and he—a seventh-generation Northerner—tried to respect that while modernizing. He has 32 exterior restoration. In 1997, he installed McMeekin's first central air-conditioning. "They whitewashed it, and the sound of the wood cracking was like gunshots," Jenkins says. "It'll never be like that again." Some base boards and the porch were damaged. Calfee also installed 12 area speakers throughout the house, hooked up with 7 miles of copper wire. But he carefully stepped past on the main entrance and the ground floors, and he tried to re-paper walls in and out cover farm mice in his tonal approximation of the original finishes.

During the Calfees' restoration, workers found a 100-year-old Civil War cannonball and carefully pulled it across the yard for days. And Calfee noticed what he called "dark brown stains" on the floors of the dryer and great hall. These "something" turned out to be the rust and grime from clothes, a lesson on recyclability because it's full Kelly had been living there year-round annually, creating a protective patina. "You couldn't see the person," Jenkins says, "but the varnish was protecting skin."

The National Park Service eventually bought McMeekin to use, Jenkins says, as a "vehicle for interpreting the planter class of Northerners and the slaves who lived alongside them." The park service removed the 12 speakers, installed speaker heads in the speakers' place and painted a roof of Vermont purple slate. Inside, the polo players,

Cool Ideas From a Grand House

Maine house owners can take a few cues from McMeekin about how to get a bit of air whipping past a window shade. A steady gush fueling the prevailing winds will create air bubbles if it passes this house as well as shading the large windows and doors so they could remain open for continued air flow even when it blows. And this symmetrical Greek Revival three-planter house will profit by asymmetrical cross ventilation. Windows and doors were set on an angle—one opposite another—making it easy for air to move through.

The original owners of McMeekin held sturdyways across the house next to a central fire foundation fire, leaving room but also to encourage air flow. Another clever landscaping trick was to use large, open, narrow trees with shade plates, which actually created air currents—the sun-warmed air rises, pulling cooler air from the shade. The barn owners also incorporated the heat into fire. "Batturent windows and doors were opened before heating and the exterior shutters were closed and locked for sealing. Then they'd go to the attic and open the dormitory windows. The insensitized heat air that had built up all day rushed up and out, pulling the cool air up the chimney and cooling the house," says museum-appointed Kitchen Director. "In the morning, once the house had cooled, the shutters would be closed to keep the cool air in."



Behind the facade of classical ideals at Melrose is a harsh historical reality. The house was built and maintained with slave labor.



which had earned a steady income during the mid-1800s, were taken down and replaced with cream-and-gold brocade paneling that contrasted with crimson and gilded mahogany railings to the rooms.

A housewide search for artifacts led to several remarkable discoveries. In the main, researchers found a ceramic teapot and saucer from a pottery kiln water system, which may even have flooded early indoor toilets. The slaves were lead with leads, perhaps the source of health problems among the McMillions, whose daughter Mary Elizabeth Conner was a first child and died at age 25 of asthma. It's the pair kept between the first and second floors, a foot of woodcut sets or oversize pencils, a clever idea that ingeniously

avoids a fire hazard in the early days of electrification. I once came to Melrose in 1993, when a movie catapulted me and the house's owner to a cult, *The House of Mirth*. Had a century later, the audience opened *Blood Land* and *Freedomland*, I would have blood pool at Melrose—the perfect setting for slaves as mythic heroes.

Front Page issues the difference between art and history. During his early years at Melrose, he slept in the old olive quarters and kept the dove tails ranging in memory of the blacks who once worked on the property. But he says he has never lost the sense of awe he felt when he first set eyes on Melrose and imagined what life must have been like for the masters of the house. "I thought it was a grand style of living, that's for sure."

When you want tools that'll last a lifetime...

trust the folks in the red vest.

If you want tools that are built to last, head to your local Ace Hardware dealer. Because they offer an entire line of Ace Brand hand tools, from screwdrivers and socket sets to hammers and wrenches. Each with a full lifetime warranty.

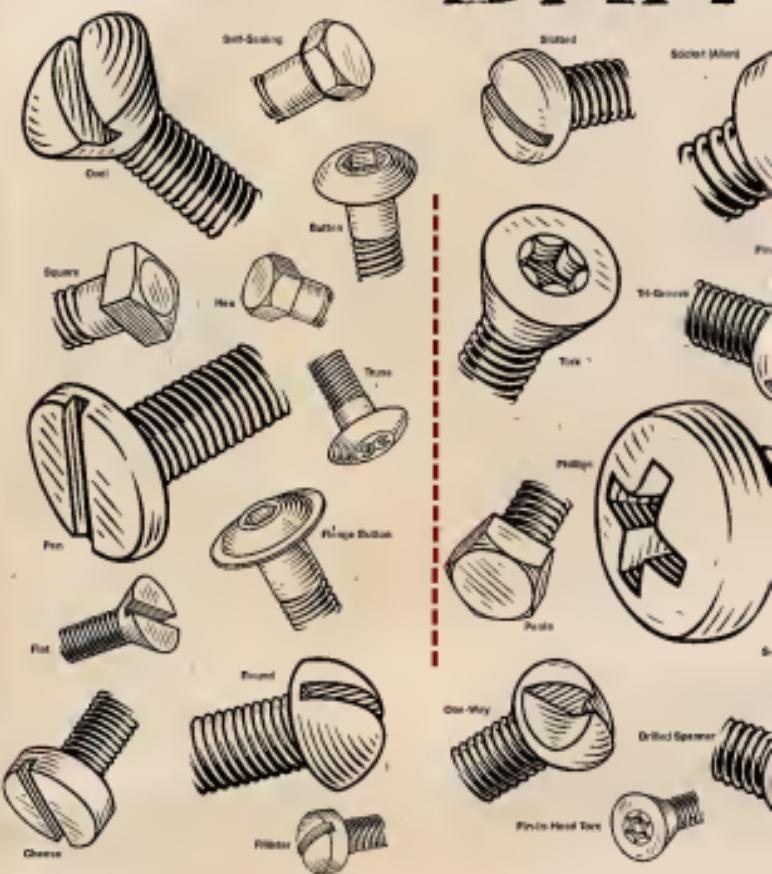
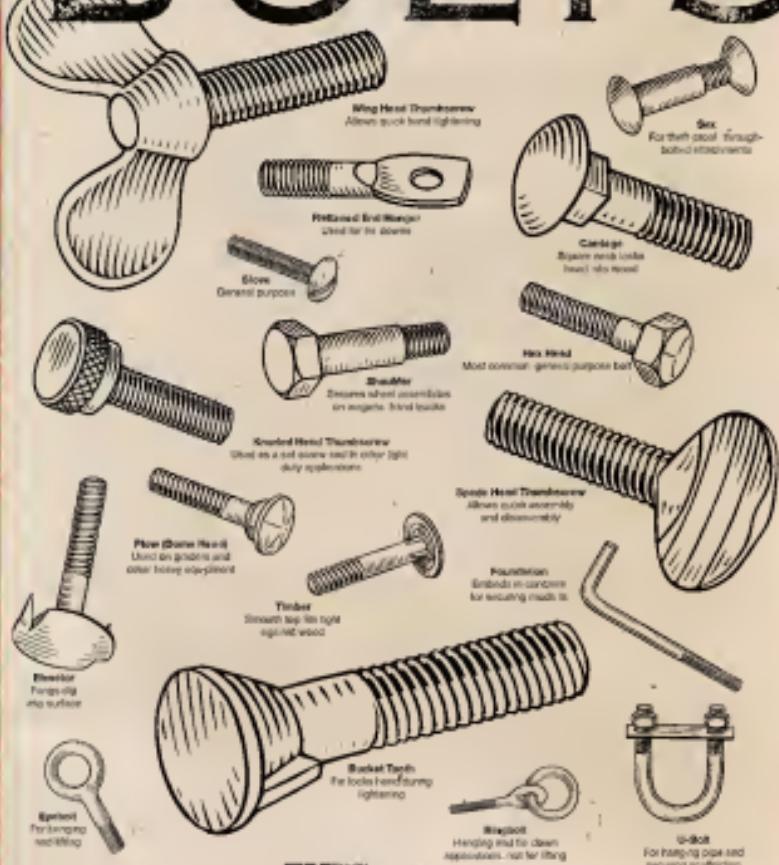
ACE Brand Don't Be the Place for the Hat. Go where quality begins.

Silence
Gentleman Hardware

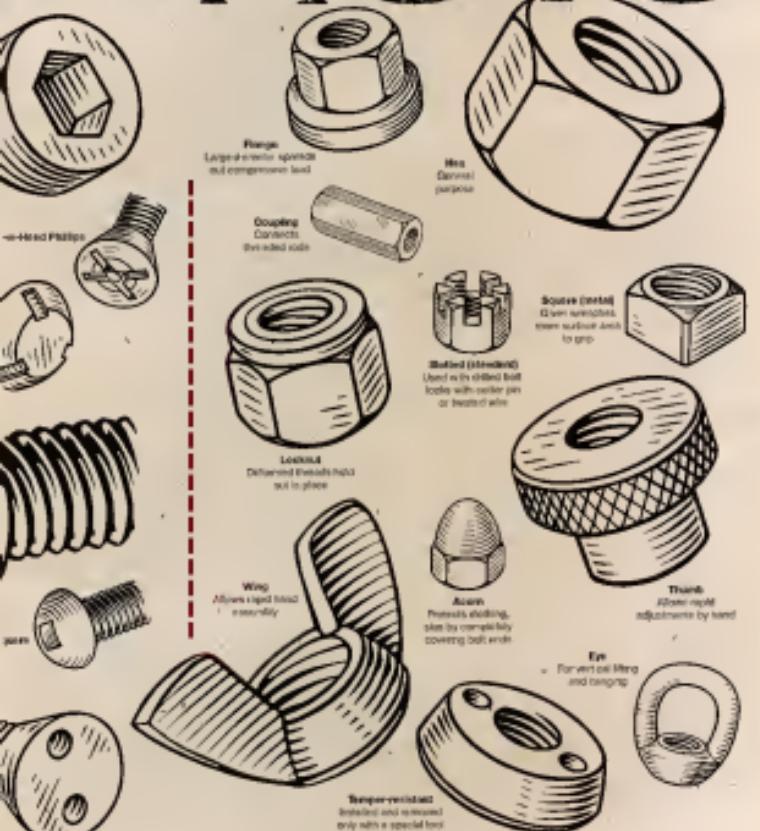
Proud Sponsor of
The House

BOLT SHEADS DRIV

CONTAGION HERE



ESNUTS



STRENGTH CODES

LINE STEEL AND STAINLESS STEEL BOLTS GET THEIR GRADES. THE BOTTOM LINE OF THESE RATINGS IS STRENGTH, THE TOP LINE LOAD—IN POUNDS PER SQUARE INCH—that a bolt can reliably withstand. UNLESS YOU DELVE INTO THE EINS OF A SPECIALTY FASTENER SUPPLIER, YOU'LL SELDOM ENCOUNTER MORE THAN THREE GRADES: 5, 8 AND 10 FOR STRONG, STRONGER AND STRONGEST—WHICH APPEAR NOT AS NUMBERS BUT AS HAMMERS OR BOLT HEADS IN A SIMPLE, EASILY DECIPHERABLE CODE. ADDING TWO TO THE NUMBER OF HAMMERS GIVES YOU THE GRADE. THESE GRADES DON'T HAVE NO HAMMERS, SINCE THEY HAVE THREE; IT'S GET STAMPED WITH 8, DONT ASK ME WHY.



GRADE 2—COLD-FORGED LOW OR MEDIUM-CARBON STEEL. TENSILE STRENGTH: 74,000 PSI. SHEAR STRENGTH: 40,000 PSI. WILL WEAR THROUGH IF USED ON MOVING PARTS.

GRADE 5—HEAT TREATED, QUENCHED AND TEMPERED MEDIUM-CARBON STEEL. TENSILE STRENGTH: 125,000 PSI. SHEAR STRENGTH: 70,000 PSI. CAN BE USED ON MOVING PARTS LIKE SWIVEL SEATS, GARAGE DOOR HARDWARE.

GRADE 8—HEAT TREATED, QUENCHED AND TEMPERED HIGH-CARBON ALLOY STEEL. TENSILE STRENGTH: 180,000 PSI. SHEAR STRENGTH: 90,000 PSI. FOR USES REQUIRING SUPERIOR STRENGTH AND DURABILITY, SUCH AS IN ENGINES.

THREAD COUNT

BEFORE STANDARDIZATION Brought UNIFORMITY TO THE BOLT INDUSTRY, MATCHING A LOGIC NUT TO A STRAY BOLT WAS LIKE GOING THROUGH A CLOSET OF JUNKIES SHOES. WITH MANUFACTURERS CUTTING THREADS AT THEIR OWN STANDARDS, WHAT THE PRIMAL PAIR WOULD FIT TOGETHER! ALL OTHER ATTEMPTS AT MARRIAGE WOULD FAIL FOR REASONS OF INCOMPATIBILITY.

秩序 ARRIVED IN 1866, WHEN BOLT-MAKER WILLIAM BELLORS OF PHILADELPHIA SUCCESSFULLY CHAMPIONED A SINGLE U.S. STANDARD. TODAY, WE COUNT THREADS BY THE INCH AND LABEL BELTS AND BODIES. "7/16-18" IMPLIES A 7/16-INCH DIAMETER BOLT WITH 18 THREADS TO THE INCH. THE LABEL ALSO TELLS WHETHER THE THREAD IS COARSE OR FINE; THAT 7/16 BOLT HAS COARSE THREADS; THE FINE VERSION HAS 24 THREADS PER INCH. THE PHYSICAL DIFFERENCE MAY BE SLIGHT, BUT EXPERTS SAY THE PERFORMANCE DIFFERENCE IS SIGNIFICANT.

"SOME PEOPLE SAY 'THE FINER THE THREAD, THE BETTER THE FASTENER.' THAT'S BALENCE!" SAYS BOB CLARKE OF VALLEY FORGE BOLT, A PHILA. MANUFACTURER. ACCORDING TO CLARKE AND THE INDUSTRIAL FASTENERS INSTITUTE (IFI), COARSE-THREADED FASTENERS HAVE ADVANTAGES OVER FINE, ALTHOUGH STRENGTH ISN'T ONE OF THEM. COARSE THREADS WORK BETTER IN MOST APPLICATIONS THAT DON'T REQUIRE FINELY CONTROLLED TIGHTENING. ASKS CLARKE, "COARSE-THREADED BOLTS DON'T GET DRIED UP AS EASILY, SO THEY TRANSPORT BETTER. AND THEY'RE EASIER TO ASSEMBLE OR DISASSEMBLE."

COARSE THREADS ALSO ABSORB THICKER CONTAMINANTS AND CAN EARN GREATER CORROSION RESISTANCE. AND THE FATTER, STRONGER THREADS RESIST STRIPPING BETTER THAN FINE THREADS. "THERE'S NOTHING WORSE THAN A STRIPPED THREAD," SAYS CHARLES WILSON, IFI'S CHIEF ENGINEER. "THE LITTLE FEEL FROM A STRIPPED THREAD JAMS THE NUT AND MAKES IT SEEM TIGHT. BUT THE FIRST TIME THAT NUT IS VIBRATED, IT'LL LOOSEN, UNREWIND AND FALL RIGHT OFF."

THIS OLD HOUSE BOLTS AND NUTS

BY PETER JENSEN
ILLUSTRATED BY
GREG NEMEC

THANK ERICHMEORE. WITHOUT HIS INVENTION OF THE SCREW, AROUND 200 B.C., WE MIGHT NOT HAVE ONE OF THE REED TAG TEAM IN THE HISTORY OF PARENTHOOD: THE BOLT AND NUT. BUT IT WASN'T UNTIL THE RENAISSANCE THAT THE SPIRAL THREADS—AFTER CENTURIES OF LIFTING WATER AND PRESSING PAPER—WERE HELD AS A PRAISEWORTHY RECORD: THE FIRST HELD-AND-NUT WAS DESIGNED IN 1487 BY A FRENCHMAN BY NAME, YET DESPITE THEIR EFFECTIVENESS, SHAM AND OFF THE BATTLEFIELD, HELTH AND MUTH REMAINED CENTER-MADE PRIMARIES, RARELY TRAILING DOWN TO THE GERMANY HAIR.

THE INDUSTRIAL REVOLUTION CHANGED ALL THAT AS THE NEED FOR INTERCHANGEABLE PARTS BROUGHT NUTS AND BOLTS TO THE FAB. AND WHILE THEY WERE STILL CRUDE BY TODAY'S STANDARDS, THEY GATHERED A MASS-MANUFACTURE NEED TO TAKE APART THOSE WHICH HAD BEEN ASSEMBLED. TODAY, CLAMMING COLD-PRESSED MACHINE NUTS CUT BOTH BY THE BLADE OR A LASER-BURNED PAGE, MOST ARE DESTINED FOR OTHER TIMES. THE RIVER NAME OF EXOTIC ALLOYS TAKE ON THE LUDICROUS TRANSFORMATION OF A 3-D B-COMPLEX THE PRESSURE OF NUCLEAR REACTOR COOLANT. SOME ARE MADE FOR A MATTER-HAVENTE WORD, WHILE OTHERS AS THIN AS HUMAN TEETH HOLE ETCERAPERS AND SPACER STATIONE TOGETHER.

BACK ON EARTH, THE BOLTS AND NUTS WE USE GROWSE HARDWARE-STORY LINE WAITING FOR QUICKEE-KEY REPAIRS AND SAFT DECK INSTALLATIONS. WE HERE TURNING OUT THICK BOLT AND THIN NUTS ENOUGH, PLATE AND FINALLY SICKEN. WE NOTE HEFT AND DENSE STURKIE. WE KEEFING A GREEN DIFFERENT HEAD SHAPE AND IMAGINE THE TOUGH KEEFIE TO BEET THEM. AND BECAUSE WE ONLY USE A HANDFUL AT A TIME, WE CHOOSE EACH BOLT AND NUT WITH CARE. THE REST WE FISH THROUGH THE LANNER FILE, KNOWING WELL WE'RE REWARDED WITH AN UNHOLY AND LOYAL GRIP.

THE
POSTER
CHANNEL

107

When fix-up problems pop up from out of the blue...

turn to the folks in the red vest.

Larry
Palo Alto Ace Hardware

When something goes wrong, go right to your local Ace dealer. They have all the tools and advice you need to fix any fix you've got. Including Ace Brand hand tools, built tough with a lifetime warranty.

Ace is the Place for the Job. ® www.acehardware.com

Frost Service of
THIS OLD HOUSE
on PBS

directory

MOVING SERVICES • HOME IMPROVEMENTS • BUSINESS SERVICES • CONTRACTORS



Enter Home & Garden Television's Dream Home Giveaway. You could win a fully furnished custom home at Florida's Rosemary Beach, a 1999 Cadillac Escalade and merchandise from sponsors nationwide. Total prizes valued at more than \$650,000!

To enter, visit any SEARS store, enter online at hgtdreamhome.com, or send a hand-drawn postcard with your name, address and phone number to: Dream Home Giveaway • PO Box 53393 • Knoxville, TN 37938.

Entries must be postmarked by 2/13/99 and received by 3/20/99.

When you enter, you are automatically eligible to win one of five \$5,000 SEARS shopping spree's.

Watch HGTV's "Coastal Dream Homes '99" special, premiering February 7 at 9 PM ET/PT. Check local listings for additional dates and times, and see the special Dream Home editorial feature in the May/June issue of Coastal Living Magazine.

presented by:

SEARS  **ESCALADE**

**COASTAL
LIVING** **Lane**



By design, we've given everyone a great view of the skyline. And provided protection from the best of the sun.



We're proud of Curran's
tight turning radius. But it's his
confidence in the new item



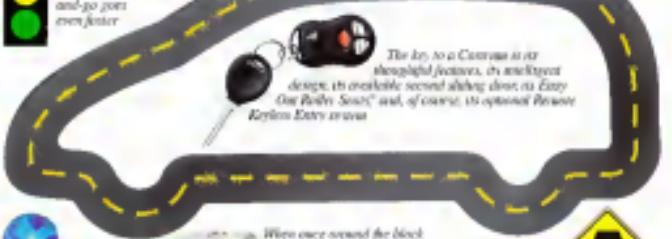
City 

This last appears to be the best approximation to the

Once around the block will convince you.



Now that Cover 65 has a standard 7 BL, anyone shop-and-go gets even faster.



Were once around the block
because all over the state,
you'll find Coxon's
extensive compartments,
cubb holes, and
outbuildings.

With options like
anti-lock brakes,
traction control,
and AWD Wheel Drive,
you can handle it.



Caravan  The New Dodge

800-4-4-DRUGSAFE or www.drugsafe.com

This Old House

Where would we be without The Old House and The Old House Classics?

REFERENCES AND NOTES See *J. Am. Chem. Soc.*, 1923, 45, 1000-1003; *J. Org. Chem.*, 1938, 3, 103-106.

Action Like a Charm

A well-trained crew heads toward his or her goal that involves simpler terms.



"It was a pleasure to work on one of the last remaining old-growth *Abies concolor* forests," says TDIE project leader Bruce Irving. Above, the completed living room.

政治系 PARTH 大四

All three continue innovating
Companies building new formulas
Bliss: That's given it a leg up
Hawaiian punch: Honey Dewend
Tetra Pak: 2000 sales \$107.40
a local store. Stick to the positive
brands/people, we passing over them
your Q1 first, getting ready to complete
the pricing. Given few weeks of the
market's sales surface counters, and
Asia's Advertisers seem to especially
differentiating this. Based on a solid first quarter
results that started 2000-2001

— 10 —

Responsible: Bailey's Antiques and
Anne Marie Kappeler-Antique Retailer
H-108-104-PE02 Parker 100% McCaffrey
Innkeepers-Business 353 Bush Loop
Kalamazoo, MI 49026 626-224-3711 Gold
Corp. Intern. 00001 Bailey's Antiques Inc.
PO Box 100000 Kalamazoo, MI 49010

Acryl-It Paint has a new website, www.acrylit.com, featuring expanded product information, including a new section on decorative concrete.

The sparkling remodeled kitchen
posed as a situation that some
Christians fleeing stored in cash
more often—and even rented out
the house for general events.



Book 10 (Pages 13-14)

The last days before the
Holi festival, when people
exchange sweets and gifts.



"Baptist says of the Honolulu
case, 'I think you should always
keep always talking about the con-
sideration, an enlightened judgment.'"

Nowhere with greater distinction than here. Laundry is a uniquely messy measure requiring additional time and space. The solution lies on the horizon.

www.Gordon's-ATLA.com
P.O. Box 2027 Honolulu HI
96824-2027 USA

The new fall project: Built in 1730, the Moxham family's house in Acton, Massachusetts, is the oldest the T.D.H. can claim ownership.

REVIEWER'S FAVORITE BOOKS



Nancy Abeyon and Steve Thomas are building an off-site site Annex house, where Terry and Jason Blanchard share charged quarters with son Eli.

and Ethan and Douglas Salter.

Resonate Planning, increasing
consultant Pefrey Brinley, 88 S.T.
Box 183, Needham Street, Duxbury,
Massachusetts 02339 Tel 508 884 0043
Amherst: Chris DeLoach, Design
Associate Incorporated, 409
Columbus Street, Cambridge,
Massachusetts 02141-8111 Tel 508 545 2



DREAM HOUSE HOTLINE

PHONE 1-800-424-0055 Call toll-free and give our operator the codes of your choice.
FAX 413-657-4343
 Fax the attached card with your choices circled.
MAIL Fill out the postage-paid card and mail.



ACE BRAND PRODUCTS

All the products brand names on the following four cards above all offer the quality value and selection ACE is known for. Write us with your choices circled at your local Ace Hardware store.



BROAN
 Soler & Palau's® broan has been a leader in the industry's finest levels of heat recovery since 1906. Call 800 433-7636 or write us at www.broan.com



CABRY
 For over a century, Cabry has been committed to manufacturing premium quality wood door products for residential entry doors and exterior applications. Call 800 855-IT-DOOR or 399-1.



CALIFORNIA CLOSETS
 California Closets provides a complete range of quality closet, vanity and storage solutions, interior and exterior storage systems designed to simplify your life. Call 888 330-1902 or visit us at www.californiaclosets.com.



CECILIA'S KITCHEN & BAKERY
 CECILIA's label, the highest quality available for refrigerators or appliances, was used for original refrigerator designs, fine residential and professional standard products. Call 800-462-1861 or www.cecelias.com.



FOUR FLOOR
 America's best selling cooktop for 30 years, in Built-in Tough. Write us with your request a catalog or write Fire King Corp. at 800-235-1020.



GENERAL II
 General designed the EDISON II with the homeowner in mind, providing reliable emergency power to your home. Visit us at www.generalinc.com.



HARDEN
 Providing high quality Arched Windows for your home from 1944. Our Inc. cabin furniture provides a rich example of solid wood furniture and upholstery available in a variety of styles and finishes.



KODAK EASYSHARE

The Seasonal Hot Internet Hotline
 Response is a superior-based media option, and deploys in one day that provides 150° running hot-water. Call 800-312-1104.

JOHN DEERE

John Deere applicances offer the options, performance and features you need. Call 800-316-5555.

JOHN MARSHALL

Gordon's® Thermo® poly-encapsulated items and tools produce high reliability, yet combine with low cost and energy savings insulation. Gordon's® Thermo® is available for most, residential, commercial and weather tight applications.

JVC

The JVC HM-DXR 100 is the world's first D-VHS VCR with a built-in digital tuner. Recent digital technology allows users to play back all regular VHS tapes.

KOHLER CO.

Kohler's® KITCHEN & BATH is a complete set of full-color catalogues, brochures, literature, colors and finishes, fixtures and more. Call 800-448-1111, Ext. 521, or visit www.kohler.com. 10-00.

KRAFTMAID CABINETS, INC.

Our brochure shows design ideas, intelligent planning tips and quality construction standards.

LENNOX

For all your heating, cooling and ducting, call 800-2-LINNOX or visit www.lennox.com.

MARVIN WINDOORS AND DOORS

If you want windows that allow you to enjoy yourself at any time, contact us at 800-259-0405 for a free reading.

MAYTAG WASHING MACHINE

All Cleaning. Maytag washers are available with 10 types of pre-set wash sequences and provide maximum control over cycles to meet the needs of any family.

WENKO PLATINUM® Series H

Send for a complete set of product brochures, manufacturer's recommended retail prices and catalog for the "G" of Our "Times" newness.

WILSONART

Wilsonart® flooring offers high style and easy maintenance. Wilsonart® 360° Series featuring products like environmental solid surface, formica® 3D™ tiles. Visit www.wilsonart.com or call 800-450-3222.

HOMEOWNER'S HOTLINE

PHONE 1-800-424-0055 Call toll-free and give our operator the codes of your choice.

FAX 413-657-4343
 Fax the attached card with your choices circled.

MAIL Fill out the postage-paid card and mail.

AUTOMOTIVE

AUDI
 The Audi AF Code is an exchange for the very look of it's own. For more information visit www.audi.com.



Mercury
 For a free brochure featuring the Mercury 1997 Mercury vehicles, please call 1-800-444-1856, or visit our web site at www.mercury.com.



MONTE CARLO Z34
 Genuine Chevrolet. Call 800-530-2431 or visit www.chevrolet.com.



HONDA
 For more information regarding Honda's financing, lease or car purchases vehicles and insurance, call 1-800-2-HONDA or visit us at www.honda.com.



SILVERADO
 The new Silverado. More power, more torque, more strength. With the most powerful V-8 cylinder in any pickup. Introducing The Big Truck. Chevrolet. Call 1-800-TRUCK-1 or visit www.chevrolet.com.

WINDOWS AND DOORS

KOHLER
 One-stop bathroom solutions and kitchen fixtures. Call 800-312-1104 or visit www.kohler.com.



KUBOTA
 Kubota's® line of hayride products for homeowners and landscapers. Hayride trailers, compact tractors and utility trailers, tractors, pumps and generators.



VELUX
 Quality light-filled spaces enhance your new home or remodeling project with VELUX® roof windows and skylights. Call 800-333-3333 or visit www.velux.com.



PELLA CORPORATION
 With a little drywall and Pella® Windows & Doors, anything can happen. Get the new brochure by calling 800-333-3333. Visit www.pella.com.



RIZZI
 From Wood Windows and doors to any custom design city or unique, or still at least 1,000+ 1000+ standard styles. For comprehensive product literature or a free catalog, call 800-333-3334.



HARDWICKE
 Find out how right price efficient products, great and energy efficiency by choosing the right type of hardware for each side of your home. Call 800-333-3333.

1-800-424-0055

WINDOWS AND DOORS**Windows & Doors**

Free home owner's catalog featuring ideas, energy efficient doors and windows
800-424-0055 ext. 1028

BUILDING PRODUCTS**U.S. Gypsum**

Free brochure shows how easy it is to use DRYWALL. Materials, equipment, plans, tips and techniques to help you save time and money from the divergent effects of wood products.
800-273-2210 or visit www.usg.com

Ace Hardware

Any improvements at option best of parts,
accessories, fixtures, tools and specialty
products. Visit your local Ace Hardware store
or visit www.acehardware.com

Clopay

Residential garage door styled like barn
ceilings, vinyl siding, the garage door.
High quality materials and style of Clopay's
garage doors can make your home look
like a true craftsman. For pictures, see
our free Guide to Garage Doors. Call
800-373-0049 or visit www.clopay.com

Craftsman

Send for a free, 11-page Products Selection
Catalog and see why there's no better
place to buy your building needs.



This
is
amazing what you can dream up
when you're not bound by anything.
To staff from Care Building, for a book
of inspiration, call 800-373-1833 or
visit www.trex.com.

The Quality Company

Quality products made a better
experience for local and national
contractors. For more information and free
DVD product videos, call 800-282-1833

TGCS

From Dust-Free Systems
Cleaner-drier units for dust-free
dry cleaning, dry cleaning, dry cleaning
systems. Call 800-373-1833



CRAFTSMAN TOOLS
Craftsmen tools are made by skilled
and experienced workers. Call
800-373-1833. 24 hours, 7 days a
week for your free copy of the
"Craftsmen Tools and Hand Tool" catalog.

RESOURCES

- 43 Ad Agencies America, Inc. 711-284-8333
- 44 ADVERTISING MANAGEMENT 800-373-0121
- 45 A.G. Edwards & Sons 412-761-6333
- 46 ALBERT WHITFIELD Alpine Hotel Port-Flourier & Bistro 800-367-1131
- 47 BAKER FRESH TEST KITCHEN, INC. 800-497-3871
- 48 CROWN VINYL & CONCRETE 800-327-7861
- 49 DAVIDSON'S STONE & MARBLE Tiling Services 876-743-2700
- 50 CLASSIC GUITAR STORES "Guitar World" Rock Guitars & Drumheads 800-643-9410
- 51 COOPERATIVE ENERGY For Quality Cooper 800-643-3019
- 52 COUSINS JEWELERS Tasteful Fine Jewelry 800-244-1910
- 53 COTTAGE INDUSTRIES Simple Ideas for Gardens, Amherst, Calif. 800-733-1600
- 54 ENTHUSIAST'S STORE AT HOME 800-934-1293
- 55 F & S MANUFACTURING CONCRETE COMMERCIAL TILT PAVING SYSTEMS 800-333-1331
- 56 FINE PRINTS & HOMES Scholastic Poetry & Omega Brother 800-961-5144
- 57 FRUITWOOD, INC. Metal & Glass 800-763-6347
- 58 GARDEN CITY QUARRIES/QUARRYLANDS Safety, Tools, Heating & Roofing 800-473-3823
- 59 JANNEY'S HOME Remodeling Ideas 800-624-9534
- 60 LEGAL CLOSET HOME Custom Design Color Stories 800-947-3832
- 61 NO. W.H. KREISBERGER PRODUCTS 800-527-5551
- 62 RESEARCH PASTA/ARTIFICIAL LANDSCAPE Artificial Landscaping Ideas 800-487-3246
- 63 SIDE STABLE CABINETS Easy storage from the Mall of Asia 813-631-1300
- 64 SOUTHERN WOOD FLOOR Hardwood & Vinyl 800-440-3888
- 65 SPECIAL SOURCE OF AMERICA Vinyl Siding 800-421-0700
- 66 STERLING AIRCOoled Heating & Airconditioning 800-370-3021
- 67 THIERSI, INC. Sliding Glass 800-271-0793
- 68 SUPPORTS-STRUCTURES, INC. Commercial Interior 800-280-2334
- 69 THE VINTAGE STORE Household Cleaners 800-921-7417
- 70 THE WOOD CARPENTER California, Furniture 800-758-5763
- 71 TRADE SHOWS Trade Improvement Products 800-271-0811
- 72 UNICO Central Air Conditioning, Central Air 800-827-0818
- 73 XTRON GENERAL CONTRACTOR Custom Wrapping/Moving Easy 800-445-7932
- 74 YOUNG'S Manufacturing of Kitchen and Bath Fixtures www.youngs.com



The hours between nine and five
sometimes seem designed for the
sole purpose of beating whatever is left of your
brain into submission

There are meetings to sit through and then
there are meetings to debrief the meetings and
then meetings to prepare for
the upcoming meetings

And every meeting ends
with a discussion of 'next steps'—when in fact no steps
ever seem to be taken



AND A PARTICULARLY BAD DAY AT WORK, YOU
MAY SAY, SOMETHING ELSE ISN'T RIGHT.
<http://www.pbs.org/nova/whatnot.html>

at the same time (And be honest—how many
offers do you get like that on the average
Tuesday night?)

The thing is, NOVA shows you the world like
you've never seen it before

In fact, it shows you whole worlds you've
never seen before. Everything from astronomy
to archaeology to meteorology to psychology

YOU DON'T NEED TV TO THAT'S WHAT

But every Tuesday evening, no matter how
stultifying the rest of the day has been, your
brain can get exactly the stimulation it needs

What it needs is NOVA
For 25 years, NOVA has led the fight against
boring television and scientific ignorance

In fact, NOVA is much more than a television

so well, let's just say that
it pretty much covers all the
angles. These are incredible
stories, each



SO, ARE YOU A HOMEOWNER? SUBSCRIBE
<http://www.pbs.org/nova/subscribe.html>



TURN YOUR BRAIN TO MUSH. YOUR JOB IS FOR.

researched, written and photographed by some of the best scientific minds and documentary filmmakers in the world.

That's why NOVA is special. It's inspiring. It's a chance to get 100% of your minimum daily requirement of intelligence. It's a chance to see that the best entertainment is education.

It's a chance to wake up tomorrow morning knowing more than you did today. Most of all, NOVA is proof that turning your brain on at the end of the day can actually be more rejuvenating than turning it off. Tuesdays at 8pm. Or check local listings. www.pbs.org

NOVA
AOL ALTERNATE TELEVISION

THE NORTHWESTERN MUTUAL LIFE FOUNDATION AND IOMEGA.



FREE CATALOG, 800-999-TREX, ext. 358
An amazing deck option with a classic look for less! Easy Care Decking
comes from Trex®—the right way to live. Visit our website for more details
and to enter our Sweepstakes. PO Box 1100 • Holland, MI 49424

Trex. The DECK of a Lifetime.

IT'D BE A
BEST SELLER EXCEPT
THAT, WELL,
IT'S FREE.

OUTTAKES
pp. 17-28



ENTRANCES
pp. 29-30



SPRING FEST: Roger Cook (landscape contractor), K & R Tree and Landscape, Burlington, MA; 781-273-6194
Rehearsed by Maria Arceo
CALENDAR: March 18—Boulders Home and Design Flower Show, Cobb Center, 3:30 to 5:30 p.m., 248-727-4478; March 6-7—Orchard Supply Hardware's Have-To-Yo-U, Alameda County Fairgrounds, Pleasanton, CA; 408-261-2421, 1st & 19—Boulders Home and Design Flower Show, Cobb Center, 248-727-4478; Mar 20—Welches' Boulders Show, Columbus Convention Center, Columbus, Ohio, 800-626-8141; March 6-7—N.J. Home Remodeling and Furnishings Show, N.J. Convention and Expo Center, Edison, NJ; 732-417-1480; March 13—Home Show, Cox Center, Terre Haute, IN, 812-234-3734; March 26-27—Springtime Atlanta Home Show, Georgia World Congress Center, 770-958-8800

TRANSFORMATIONS
pp. 40-48



AUDIOVISUAL ARCHITECTURE: Library Corner, NJ; 973-647-8200 CONCRETE REMODELING BUILDERS: 908-284-8231, Interior Design Frank DeSalvo, Somers, NJ; 908-598-1670 KITCHEN DESIGN ETC.: 908-284-8231 GARDEN EXPRESSION FOUNDATION: 800-333-3333

piece Country Kitchens, Far Hills, NJ, 938-715-1554

MATERIALS: FEAT OF CLAY
p. 48-52



1. Whitewall Lacob, Venetian Back, Claygate Castle, NY, 802-649-5254
2. Salvaged Concrete, Wacky City Antiques Inc., Chicago, IL, 800-669-3304, 3. Broiled rigg'd pizza, Pacific Clay Brick Products, Lake Elsinore, CA, 951-674-2131, 4. Stair tiling, Venetian Back, 5. Sand-crack pavers, Golden Brick Co., Canton, OH, 330-456-2404, 6. Sidewalk pavers, Renaissance Rock Island, Rock Island, IL, 309-788-6181, 7. Iron Spa Pavers, Enduro Clay Products Co., Fairbury, NE, 402-729-3115, 8. Half-rock, Golden, 9. Bullion Coping, Pacific 10. Wall cap, Golden Brick.

UPDATE: GOT LEADS
p. 55-56



Lead Paint Remover Environmental Associates Inc., Woburn, MA, 781-933-2353, Lead Abatement Contractor Directory Corporation, Andover, MA, 978-873-2360.

Monolithic & Lead Safe Home by Dennis Livingston, 1997, \$14, Community Resources, Baltimore, MD, 410-727-7817, National Lead Information Center, Cleveland, 800-424-5323; www.gpo.gov/fdsys/pkg.

ALL ABOUT SAVES
p. 61-62



Robert A.M. Stern: Contact: Gary Berney, 967-3108, Duo DeLucca 233-245-0403; Dennis Wedlick, 212-614-9347.

James Scherino 203-766-3332

LADDERBIES
p. 69-70



Copper shingle, Sunwise Copper Products

directory

Int'l. Sales, NY, 800-448-1776

WATERTOWN FINALE
p. 75-83



Custom made furniture: Charles Webb/C Design, Concord, MA, 617-347-2100. Upholstered furniture: Workroom, 400-636-7799. Bed frames and bedside: The Company Store, 800-281-3695. Kitchen accessories: Crate & Barrel, 800-673-1626. Bathrooms and office accessories: Pier 1 Imports, 800-285-0195. Architectural design: Taly and Roslyn, 617-497-8693. Remodeling and home improvement consultant: Richard Tschirhart, Trethewey Bros., Inc., 617-

323-3293. Master plumber: Ron Goldwell, Trethewey Bros. Inc. Electrician: Allen Gorlow, Galdent Electric, 781-893-0636. Painting contractor: Steve Kenyon, S.L. Kenyon & Co., 617-684-6135. Landscape contractor: Roger Cook, K & R Tree and Landscaping, 791-272-6184. Overhead Guttering, 791-253-1760. Overhead metal downspouts: Thermarain, 100-715-432-1200. Refrigeration Sub-Zero Freezer Co., 800-232-7810. Maintenance Supply, 800-230-4277. Cabinetry: Woodstock Corp., Woburn, MA, 508-733-5341. Granite, Pitcher Granite Co. Inc., North Chelmsford, MA, 800-253-8188. Skyrighthandler: Air Systems: Heating and cooling: Unico, St. Louis: Drainage: Calvac Inc., Leo Leonard Environmental Consultants Inc., Andover, MA, 978-753-6314. Cable: Contractors Choice: Camera systems, 800-426-5812. Shingles and clapboards: Lumber Cedar, 800-392-3323. Exterior Paints: Little Glass, 1-800-538-7402; Benjamin Moore, 800-499-7432; Victoria Tile Tile Barn, Lubbock, New Jersey, 800-236-9330. Marble and tile: Stone Setting: Granite Seal, 810-966-3729. Tile: Tile Showcase,



CONSIDERING THERE'S NO MIXING,
THIS IS THE ONLY TOOL YOU'LL NEED
TO SET A POST.



Just put your post in the hole, pour in QUIKRETE® Post Setting Concrete and add water. It sets hard in minutes. That's all there is to it. Of course, you still may have to untangle the hoses. For more information, visit www.quikrete.com or call 1-800-269-9588.



© 1990 The Quikrete Company. QUIKRETE® is a registered trademark of the QUIKRETE® Companies. All rights reserved. Unocal Worldwide.

Watertown, MA 017-926-1180. **Tessman**
Siding: DePuck Mason Company,
Boston, MA 017-815-2311. Flooring:
Carpet: Plus Hardwood Floors, Lexington, MA 781-862-1518. Floor boards:
Dundee, Division of Hanover 800-326-
9485. Quarantine and Roofing: Fire
and Insurance, Jefferson, LA 304-735-
8264. Landscape architect: Brown and
Rose Inc., Everett, MA 617-941-8152.
Arborist: Matthew S. Tree Landscape &
Tree Service, Lexington, MA 781-661-
6565. Copper gutter system: Classic Gutter
Systems, Kalamazoo, MI
616-382-2700. Engineered leaders: Georgia-Pacific, Atlanta, GA 404-512-4300.
Window relab: 270. Window Repair:
David Library, Boston, MA 617-732-
9410. Basement weather striping: Bowen
Building Material Co. Cip, 617-442-2262.
Anti-freeze insulation: Steve Hayes,
Custom Insulations Inc., Falmouth, ME
207-781-1999. Wiring network: IES Inc.,
Minneapolis, MN 606-940-4217. Deck under-
mount systems: Deckmate, Sandy, UT,
800-863-3373. Vinyl insulation: Kyno Inc.,
Minneapolis, Ontario, Canada, 800-
758-7325. Trunks and Boxes: Whipple
Woodworking Inc., 308-668-2020. Wall-
beach: Dura-Wall Board Supply, Tyngsboro,
MA, 978-649-4000. Carpet:
products: Georgia-Pacific, Deptford/Paramus:
Lynn Drywall and Plastering, Newbury,
MA, 508-831-6449. Naugahyde:
Weston Naugahyde, Hopkinton, MA, 508-
455-3414. Vinyl experts: John W. DeR.
Concord, MA, 978-369-8157. Security
systems: Lexington Alarm Systems, Bedford,
MA, 781-275-4280. Closet systems:
Peldorf USA Inc., New York, NY, 212-
615-1218.

NEW OLD HOUSE

p. 86-88



Architect Scott Samelson, Lysen, CT;
609-434-7767. Carpenter Ron Gomes,

Useless.



Take Your Basement From
Damp and Dingy to Dry
and Cheery in One Weekend.

WATERSTOP™ Masonry Waterproofer protects and
preserves basement walls against the damaging effects
of water seepage. Do what you're ready to do—fix a ugly
basement into attractive living space. See **WATERSTOP** or new **LACES BASE**
24X12X6" masonry waterproofing panel that's guaranteed to stop water
for 100% thicker and the dealer nearest you. Call 1-800-473-5251.
www.adgproducts.com

Useful.



ENCL, CT, 860-387-3150 and John
Fenton, Deep River, CT, 860-526-3567.
Siding: Brooklyn Restoration Supply,
Brooklyn, CT, 860-774-6739. Venetian
Shade: Exchange Company (Joint
Venture) Wrentham, MA, 508-353-2870.
Whale River Jalousie, VT, 802-255-7636.
Windows: Mellen, Mellen Windows & Doors;
800-346-9128.

AMERICAN CRAFTSMAN

p. 94-100



Jack Schaefer, architect and builder, Box
106, 113 State Road, Windsor, MA
01076; 978-634-3223.

STONE FACED

p. 102-106



Stonemason Builder: Walter Crotewell
Jr., New Canaan, CT, 203-961-6330.
Architect: Robert A.M. Stern Architects,
New York, NY 212-967-5100. Stone:
suppliers: OldG® Industries, Tewksbury,
MA, 978-337-3119; Waterford: Lenny's
Masonry, Stone, MA, 978-897-6256.
Granite: Peculiar Granite Company, N.
Chelsea, MA, 878-251-4031.

FREE STONE AND INSULATION INFORMATION
POAL, PRICE OF STONE AND THE STONE
THE OLD HOUSE ASSOCIATION AT POAL RETAIL
PROJECT REQUEST FORM AND AVAILABILITY
MRI CHART AT PAGE FIVE

Call for
FREE
Sample
Books!

Carpet Shopping?

Buy direct from the
mill and save 50%!

Four smart reasons to
buy direct from S&S Mills

1. Great Savings. Buy direct from
the mill. No middlemen involved.
All the profit, half the price.

2. Superior Quality. Our standard
of high quality craftsmanship is
unmatched in the industry. We are only
the highest quality materials in
manufacturing Stick Mills Carpet.

3. Delivery? No Problem. You
don't have to lift a finger. An installer
can measure your carpet from the freight
line and bring it into your home at your
convenience within 7 to 10 days.

4. Installation. S&S Mills carries
qualified and experienced professional
installers across the country. We'll be
glad to help you find one near you.



Call for your FREE
Carpet Sample Portfolio!

1-800-392-6893

WWW.SMSIL.COM

250 Harvard Drive, Dalton, GA 30050



Ask for
About 500
Wool and
Synthetic

Experience the ultimate
handicraft furniture
marketing ally.

STADLER
WILLING FINGER®

A CHOICE STYLING IN TRAILS' DELIGHT

100% Mahogany 60x30x18

• Heavy Duty

• Solid Mahogany

• All Wood Construction

**Quartersawn
Clapboard Siding**
or insulation Materials
including Wide Pine and
Hardwood Flooring.

Quartersawn produces
a natural grain clapboard.
 • Dense and strong
 • Premium quality
 • Rustic paint and stain colors
 All materials:
Chestnut Battery Siding
 Includes Pre-Finish for
all types of wood at
the time of purchase or
 prior to installation
 with 15 year warranty:
 • Chestnut
 • Cedar
 • Redwood
 • Pine
 • Redwood
 • Hardwood
 • Pine
 • Cedar
 • Mahogany
 • Teak
 • Ipe
 • Cedar
 • Mahogany
 • Teak
 • Ipe
Growth's Manufacturing Co.
 • Established 1887 •
 P.O. Box 13, Granville, Vermont 05047
 Call, write or fax us for Free Brochure
 Tel: 800-387-4180 • Fax: 802-387-3107
 E-mail: woodcladding@verizon.net
 Web Site: www.woodcladding.com

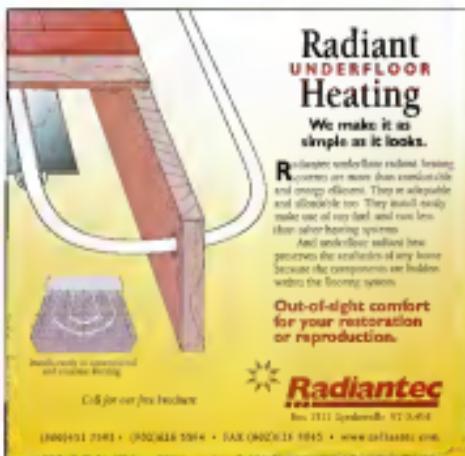
Cinder Whit & Company
Wood Turnings For Porches & Stairways
A Blend of Creative Design & Academic Replications • Premium Oak Quality Services •
• Porch Posts • Balusters & Spindles • Railings • Columns • Handrails
• Lengths To 12' Feet • Free Estimates
210-362-1227 800# 780-642-4254
E-Mail: cwhit@juno.com
www.cinderwhit.com
1300 W. Main Street • Suite 100 • Indianapolis, IN 46202

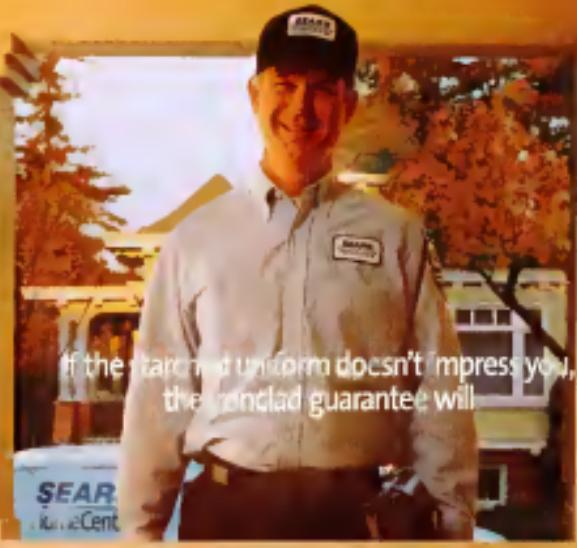
**HEART
PINE
FLOORS**



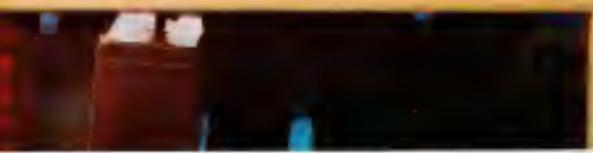
1-888-488-PINE

www.johnsonrealestate.com





If the starched uniform doesn't impress you,
the vinyl-clad guarantee will.



Whoever said there are no guarantees in life never had an appliance fixed by Sears HomeCentral. Our 14,000 repair specialists are so well-trained, we guarantee their work on any major brand appliance, no matter where you bought it.

So if you have an appliance problem, call someone who knows what they're doing. We'll fix it right, guaranteed.



1-800-4-MY-HOME

Some customers guaranteed or you money back. ©1996 Sears, Roebuck & Co.

BIG IS GOOD. BIGGER IS EVEN BETTER.

THE TRUCK knows big. That's because The Truck has the biggest extended cab of any Chevy® full-size pickup ever.

And when you start this big, you're bound to end up with a whole lot of comfort. The widest third-door opening in the industry and an integrated safety belt design will have you in and out in no time. Your knees will appreciate having the easiest rear-seat legroom of any half-ton pickup. Settle into one of the available front bucket seats with articulating headrests and you're up to your neck in luxury. Optional heated leather sits-way

power buckets' have a driver's side extra: they can be programmed to remember exactly how you like your seat adjusted. There. That's much better.

Now look over your shoulder. We added four more inches of legroom back there: exclusive adjustable outboard headrests and an 18-degree rear-seat-back angle to make backseat drivers happy on long trips. Road positive that the new Silverado® isn't just any truck. It's The Truck. From Chevy. The most dependable, longest-lasting trucks on the road.

SILVERADO



LIKE A ROCK

Call for 1-877-BIG-TRUCK or www.chevrolet.com/silverado

Measured based on standard driver's side door for half-ton pickups. Number of seating positions includes 10-passenger 1500 Chevy-C15. ©Dependability based on longevity. Call 1-800-777-1234. GM's Right Daybreak marketing registration includes other GM divisions. All rights reserved. ©GM Corporation. ©1997 GM Corp. (Chevy is a registered trademark of GM Corp.)